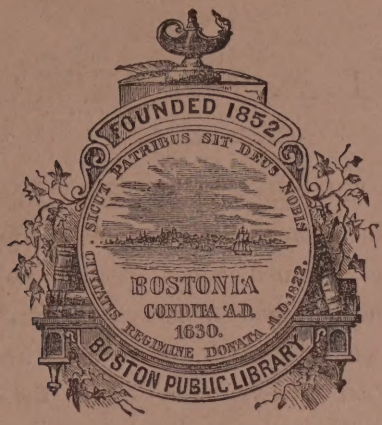

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— — Same. Part 1, 2. 2 v. 829.7
WOOL. Brothers, S. Wool and woollen manufactures of Great Britain 193.1
— History of 195.4
WOOLHOUSE, W. S. B. Differential calculus 829.31
— Measures, weights, and moneys 1169.59
WOOLSEY, T. D. International law 299.14
WORCESTER, *Marquis of.* *See* Somerset, E.

Shelf. No.

WORCESTER, N. Bible news 118.1
WORCESTER, T. The last judgment 1082.2
WORD, The. Walks from Eden. Warner, S. 2098.1
WORDS in season. Browning, H. B. 2108.23
WORDS of hope. Means, C. A. 2108.16
WORDSWORTH, C. The interpretation of Scripture .. 1102.1
WORGAN, G. The art of modeling flowers in wax... 184.26
WORK: or, plenty to do and how to do it. Brewster, M. M. 1099.20
WORKDAY Christianity. Clark, A. 2089.17
WORKERS, Words for the. Haley, W. D. 137.27
WORKING classes, Letters to the 128.28
WORKING men's social clubs and educational institutes. Solly, H. 1128.10
WORKING people, Better days for. Blaikie, W. G... 813.8
WORKMEN and their difficulties. Bayly, *Mrs.* 1138.7
WORKMEN'S earnings, strikes, and savings. Smiles, S. 1138.8
WORLD, System of the. Nichol, J. P. 146.11, 12
WORLD of matter and of man. Parker, T. 2096.7
WORLD we live in. Ansted, D. T. 163.32
WORLDS. Brewster, *Sir* D. More worlds than one. 146.28, 29
— Powell, B. Unity of 114.20; 147.23
— Proctor, R. A. Other worlds than ours 147.29
— Turner, S. Sacred history of the 810.43
— Whewell, W. Plurality of 146.18
WORMAN, J. H. The German echo, a guide to German conversation 2028.3
WORMS. Tenney, *Mrs.* S. ..... v. 4 of 1178.3
WORNUM, R. N. The epochs of painting characterized. History of painting 850.23
— – Same. New edition 206.18
WORTH and wealth. Hunt, F. 136.20
WORTHEN, W. E. Appleton's cyclopædia of drawing. 201.5
— First lessons in mechanics 184.1
WRANGHAM, F. The Pleiad. From seven writers on the evidences of Christianity 830.41
WRAXALL, *Sir* (C. F.) L. Life in the sea 176.25
WREATH, The, of gems 201.12
WRIGHT, A. S. Book of 3000 practical receipts 180.10
WRIGHT, H. G. Headaches, their causes and their cure 154.28
WRIGHT, L. The practical poultry keeper 1177.22
WROTTESLEY, J., *lord.* Navigation ..... v. 3 of 365.14
WYMAN, M. Treatise on ventilation 207.5
WYTHES, J. H. Curiosities of the microscope 1148.3

YARRELL, W. British fishes. 2 v. 172.11
YEAR book of daily recreation and information. Hone, W. 892.13
YEAR-BOOK of facts in science and art. Timbs, J... 159.2
YONGE, C. M. The pupils of St. John the divine... 1118.3
YOUATT, W. Cattle; their breeds, management, and diseases 172.13
— The dog 172.22
— The horse. London 172.17
— – Same. New York 165.16
— The pig. Enlarged and re-written by S. Sidney. 176.23
— Sheep: their breeds, management, and diseases .. 160.28
— Diseases of the horse. *See* Martin, W. C. L. 840.44

Shelf. No.

YOUMANS, E. L. Class-book of chemistry 155.34
— Hand-book of household science 188.5
— and others. The culture demanded by modern life; addresses and arguments on the claims of scientific education. [Edited by] E. L. Youmans 1137.1

Contents.—Youmans, E. L., Mental discipline in education; Tyndall, J., Importance of the study of physics; Henfrey, A., Educational claims of botanical science; Huxley, T. H., Methods of studying zoology; Paget, J., Importance of the study of physiology; Faraday, M., Observations on the education of the judgment; Whewell, W., Influence of the history of science upon intellectual education; Hodgson, W. B., Importance of the study of economic science; Spencer, H., Political education; Barnard, F. A. P., Early mental training and the studies best fitted for it; Liebig, J. von, The development of ideas in physical science; Youmans, E. L., Observations on the scientific study of human nature; Appendix.

YOUMANS, W. J. Elements of physiology and hygiene. *See* Huxley, T. H. 1157.23
YOUNG, John. The Christ of history 1087.13
YOUNG, John R. Key to algebra 1169.55
— Navigation and nautical astronomy, in theory and practice 1169.53
— Rudimentary treatise on arithmetic 829.18
— – Key to Rudimentary treatise on arithmetic 829.19
— Science elucidative of Scripture 2107.18
— Tables to facilitate the operations of navigation and nautical astronomy 1169.64
YOUNG angler, naturalist, and pigeon and rabbit fancier 177.44
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YOUNG Christian, The. Abbott, J. 1087.7
YOUNG cottager, The. Richmond, L. 119.2
YOUNG lady's book 853.15
YOUNG mechanic, The. London 196.31
— Same. New York 196.32
YOUNG woman's companion 184.17
YOUTH'S illustrated Bible history. Thomson, D. W. . 1092.19

ZACHARIE, J. Diseases of the human foot 168.44
ZACHOS, J. C. The phonic primer and primary reader 123.29
ZAKRZEWSKA, M. E. "Woman's right to labor" ... 1115.10
ZOISTIC magnetism. Scoresby, W. 194.15
ZOLLIKOFER, G. J. Exercises of piety 1088.11
ZOOLOGY. Bennett, E. T. The gardens and menagerie of the Zoological society delineated 172.19, 20
— Broderip, W. J. Zoological recreations 177.8
— Carpenter, W. B. Zoölogy 836.6
— Zoological notes and anecdotes 176.35

See also Animals, Comparative anatomy, Crustaceans, Entomology, Invertebrata, Mammalia, Ornithology, Quadrupeds, Palæontology, Reptiles, Zoophytes.

ZOOPHYTES, History of British. Johnston, G. 178.1
ZSCHOKKE, (J.) H. (D.) Meditations on death and eternity 1102.7
— Meditations on life and its religious duties 1116.22
ZUERCHER, F., and MARGOLLÉ, É. Meteors, aerolites, storms, and atmospheric phenomena 149.43

Our Catalogue System.

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Another system, which is very appropriate for scholastic or scientific use, is a classified one, arranged according to a primary division of knowledge into general departments, with minute subdivisions. Men are not agreed upon such divisions, and there are numerous other perplexities, and the system of each catalogue demands independent study, beyond the time and sometimes the ability of the average reader.

There are three things, one of which a person wanting a book must know, and the Dictionary System helps him find the book more readily than any other, as he always looks in the proper alphabetical place for the entry he is in search of. These three things are as follows: —

I. *The title.* If this is not clearly indicative of the subject of the work (if it is, the subject should be looked for rather than the title), search for it under the first word not an article or a preposition.

II. *The author.* Find this in its proper alphabetical place. If the name is a pseudonym, there will be a reference from it to the real name.

III. *The subject.* Find this under the most specific head, and consult other heads referred to there; but observe that these references are not to more general subjects, inasmuch as it is left to the intelligence of the user to look for matter pertaining to the *horse*, for example, under such general heads, as Natural History, Animals, Quadrupeds, and Mammals, books on which general topics have, almost as a matter of course, chapters or sections on particular animals. Again, books on the same subject will sometimes be found under different heads, where the terms are synonymous, or nearly so, as, for instance, Coins and Numismatics, Shells and Conchology, Insects and Entomology; but in such cases cross-references from one to the other will always assist the searcher. Indeed, a multiplication of cross-references is a fundamental idea of the Dictionary System. This necessitates, of course, the disadvantage of turning from one part of the catalogue to the other, but there is, on the other hand, a great advantage in the certainty of getting a clew somewhere, — a thing often impossible in a classified Catalogue, except to such as have made its system a study.

A compromise, uniting some of the advantages of both the Dictionary and the Classified Systems, has been applied, though in different ways, both at the Library of Congress and at Harvard College, to the catalogues of their collections; but as the "North American Review" says of this mixed system, its use is advantageous to such only as understand it, and have learned where to look for what they want; and it is therefore well adapted to the library of a college or of a learned society, which implies a class differing necessarily from that frequenting a large public and metropolitan library.

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I. The printed INDEX of 1861. Royal octavo, 902 pages.

II. The printed SUPPLEMENT of 1866. Royal octavo, 718 pages. (This contains the titles of books in the Parker Library.)

III. The PUBLIC CARD CATALOGUE, giving under authors' names (where known) the titles of books — not pamphlets — acquired since 1866, but *without* cross-references under subjects.

IV. The printed BULLETINS (issued every two or three months since October, 1867), in which are contained — though without cross-references — the titles of recent American and foreign publications, and of books both old and rare which have been newly added to the Library. Books numbered 2110 and upwards are in this Hall.

V. The DAILY BULLETIN, in manuscript, posted near the Desk, showing the new books received between the successive issues of the printed Bulletins.

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Lower Hall Catalogues.

The Lower Hall was opened in the summer of 1858, with 15,000 volumes. The complete printed Catalogue was in one volume, royal octavo, double columns, 200 pages, and was ready for the public in October of that year. Eight yearly supplements were printed.

In 1866, incident to a revision of the books, it was decided to issue brief-title Alcove or Finding Lists, preparatory to a new consolidated Catalogue of the entire collection in this Hall. This divisionary form has been found convenient for keeping the Catalogue up with the growth of the Library, as it admits of new editions of the Lists, with a degree of frequency corresponding to their respective popularity. The character of the Lists, in the late editions, has been changed from mere Alcove Lists to proper Class Lists. The following have been printed: —

I. FICTION AND JUVENILES. *1st edition*, September, 1866, 34 pages. — *2d edition*, December, 1866, 41 pages. — *3d edition*, August, 1868, 57 pages. — *4th edition*, October, 1869, 66 pages. — *5th edition*, August, 1871, 76 pages.

II. ARTS, SCIENCES, AND PROFESSIONS. *1st edition*, 59 pages, April, 1867. — *2d edition*, 71 pages, September, 1871.

III. HISTORY, POLITICS, ETC. *1st edition*, May, 1867, 27 pages.

IV. FRENCH, GERMAN, AND ITALIAN BOOKS. *1st edition*, September, 1867, 45 pages.

V. BIOGRAPHY AND TRAVELS. *1st edition*, May, 1868, 52 pages.

VI. POETRY, DRAMA, COLLECTIONS, AND MISCELLANIES. *1st edition*, August, 1870, 128 pages.

OBSERVE. Many books properly belonging to the classes of the preceding Lists will be found in No. 6, because they form one of a series or collection.

Consult also the printed BULLETINS (remembering that books numbered below 2110 are in this Hall), and the manuscript DAILY BULLETIN posted at the Desk by the Receiving Counter.

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A Card Catalogue, containing only the *titles* of works (not anonymous) which have been added to the Lower Library since the issue of the various Class Lists, has been placed at the Clerk's desk in the Distributing Hall. In the printed Bulletins, such works are entered only under the names of their authors. These printed entries have been cut out of the various Bulletins, and inserted in alphabetical order in a book, which is in the custody of the Clerk, and which can be consulted on application to him. This book, therefore, and the Card Catalogue, taken together, show all the additions, both under author and title, which have been made to the Lower Library since the publication of the several Class Lists.

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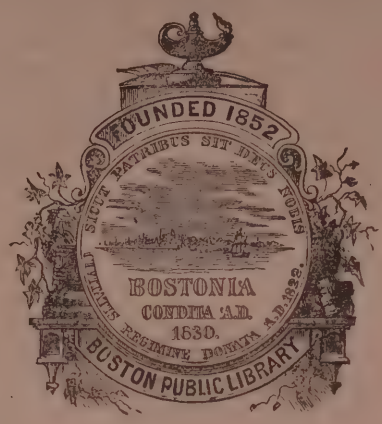

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ARTS AND SCIENCES

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1881

SCIENTIFIC PERIODICALS AND WORKS OF REFERENCE.

The following Dictionaries, Encyclopædias, and Periodicals are mostly in the Bates Hall. The list does not include works on particular branches of science. These are mentioned under their several headings in this Catalogue, or they can be found in the published "List of Periodicals in the Central Library," and the "List of Serial publications now taken in the principal libraries of Boston and Cambridge," copies of both of which can be seen if desired.

Shelf. No.

Dictionaries and encyclopædias.

American annual cyclopædia and register of events. 1861–79. New York, 1862–80. 19 v. .....R.R., G.2; *4313.1

American cyclopædia, The [Appleton's]: a popular dictionary of general knowledge. New York, 1873–76. 16 v. *A.146.2

Appleton's cyclopædia of applied mechanics. Edited by Park Benjamin. New York, 1880. Illus. 2 v. .....B.H. Desk, L.19

Appletons' dictionary of machines, mechanics, engine-work, and engineering. New ed. New York, 1869. 2 v. *8030.5

Brande, W. T., and **Cox**, G. W., *editors.* A dictionary of science, literature, and art. New ed., revised. London, 1875. 3 v. ..*8037.9

Brookes, C. B. A popular guide to the terms of art and science. Philadelphia, 1879..*8039.19

Byrne, O., and **Spon**, E., *editors.* Spons' dictionary of engineering, civil, mechanical, military, and naval; with technical terms in French, German, Italian, and Spanish. London, 1874. 3 v. *8037.6

Same. London, 1869–74. 8 v. *A.200.5

Chambers, W. and R. Chambers's encyclopædia: a dictionary of universal knowledge. Illus. Philadelphia, 1869. 10 v. R.R., K.10

Champlin, J. D., *jr.* The young folks' cyclopædia of common things. With illus. New York, 1879 .....R.R., A.15

The young folks' cyclopædia of persons and places. With illus. New York, 1881. 190.5

Encyclopædia Britannica. 9th ed. Vol. 1–12. A — I. London, 1875–81. 12 v. B.H. Desk, E.5

Earlier editions are in the Library.

Globe encyclopædia, The, of universal information. Edinburgh, 1879. 6 v. *A.172.2

Goodholme, T. S., *editor.* A domestic cyclopædia of practical information. New York, 1878 .....*4003.51

Johnson's new universal cyclopædia. New York, 1875–78. 4 v. .....B.H. Desk, A.50

Knight, C. Encyclopædia of arts and sciences, or fourth division of "The English cyclopædia." Vol. 1–8, and Supplement. London, 1861–63. 9 v. in 5 .....*A.184.4

Knight, E. H. American mechanical dictionary. Illus. New York, 1874–76. 3 v. *8036.3; B.H. Desk, L.2

Laboulaye, C. P. Lefebvre. Encyclopédie technologique. 3e éd. Paris, 1867. 2 v. *8033.2

Mayne, R. G. Expository lexicon of the terms, ancient and modern, in medical and general science. London, 1860.....*7730.2

Miller, A. de Pui. "Who and what." A compendium of general information. Philadelphia, 1878.....1406.10; *6248.50

Naturkräfte, Die. Eine naturwissenschaftliche Volksbibliothek. Illust. Band 1–30. München, 1870–80. 31 v. 3917.50

Shelf. No.

Nuttall, P. A. Dictionary of scientific terms. London, 1869.....*8039.4

Ripley, G., and **Dana**, C. A., *editors.* The condensed American cyclopædia: a popular dictionary of general knowledge. New York, 1877. 4 v. *A.164.2

Rodwell, G. F. Dictionary of science. Philadelphia, 1873 .....*8037.4

Rossiter, W. An illustrated dictionary of scientific terms. London, 1879 .....3918.67

Rumpf, C., and others, *editors.* Technologisches Wörterbuch in englischer, deutscher und französischer Sprache. 2te Aufl. Wiesbaden, 1868, 69. 3 v. *8031.1

Souviron, A. Dictionnaire des termes techniques de la science de l'industrie des lettres et des arts. Paris, 1867.....*2689.51

Spons' encyclopædia of the industrial arts, manufactures, and commercial products. London, 1879–81. 3 v. *8032.50

Technical educator, The [Cassell's]: an encyclopædia of technical education. London [1871]. 4 v. Illus. *3594.50

Technisches Taschen-Wörterbuch für Industrie und Handel in deutscher, französischer u. englischer Sprache. Wiesbaden [1872]. *8039.5

Tomlinson, C. Encyclopædia of useful arts, manufactures, mining, and engineering. London, 1866. 3 v. ....R.R., I.2; B.H. Desk, G.8

Ure, A. A dictionary of arts, manufactures, and mines. By R. Hunt [and] F. W. Rudler. 7th ed., revised and enlarged. [With Supplement.] London, 1875, 78. 4 v. *8037.8

Zell, T. E., *publisher.* Popular encyclopædia, by L. Colange. Philadelphia, 1875, 76. 2 v. *A.182.2

Periodicals and transactions.

American agriculturist. Vol. 1–4, 6–12, 14, 15, 17–22, 24–39. New York, 1845–80. 33 v. *4000a.50

American architect and building news. Vol. 1–8. Boston, 1876–80. 9 v. *6990.1

American artisan and patent record. New York, 1864–75. 20 v. *7002.1

American association for the advancement of science.

See the Bates Hall Card catalogue.

American builder. A journal of industrial art. Vol. 10–15. New York, 1874–80. 7 v. *7340a.3

American journal of science and arts. [Silliman's.] [1st–] 3d series, v. 19. New Haven, 1819–80. 109 v. *5164.1

American naturalist. Vol. 1–14. Salem, 1868–80. 14 v. *7814.1

Annual of scientific discovery: or, year-book of facts in science and art, 1850–71. 21 v. 159.1; *7917.4

Annual record of science and industry, 1871–80. New York, 1872–81. 10 v. *7916.50

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WORKS IN THE ARTS AND SCIENCES.

SUPPLEMENTARY CATALOGUE.

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Shelf. No.

A B C, The, of billiards. Hardy, F. 180.112
A B C, The, of finance. Newcomb, S. 1139.18
A B C, The, of swimming 180.106
Abbott, B. V. Judge and jury. A popular explanation of leading topics in the law of the land. 1880 ..... 1135.14
Abbott, E. A. The good voices, a child's guide to the Bible 115.7
Abbott, Jacob. Gentle measures in the management and training of the young 154.34
Science for the young. 4 v. 184.42
Contents. — Vol. **1.** Heat. **2.** Light. **3.** Water and land. **4.** Force.
Abbotts farm, The. Tanner, H. 160.34
Abel, C. D. The elementary principles of machinery 1169.37
Abney, W. de W. A treatise on photography. 1165.25
About, E. Handbook of social economy 1137.2
Accidents. Adams, C. F., *jr.* Notes on railroad accidents 1193.6
Dulles, C. W. What to do first, in accidents or poisoning 1174.37
First help in accidents 157.45
See also books in the Bates Hall collection on accidents, by the following authors: — Bagot, 3868.75; — Ferrand, 3788.69; — Phin, 3798.84; — Rivers, 5789.18; — Schaible, 5799a.18; — also "Plain directions for accidents," 3789.65.

Achard, É. The history of my friends; or, home life with animals 1175.21
Acids, The manufacture of. Church, A. H. .. 1192.1.4
Acoustics. Blaserna, P. The theory of sound in its relation to music 1207.16
Cook, J. Sound and the physical basis of music 1207.22
Lees, W. Elements of acoustics 1149.12
Mayer, A. M. Sound: a series of experiments 1146.7
See also in the Bates Hall Card catalogue treatises on acoustics by Airy, 8049.7; — Broadhouse, 4047.57; — Donkin, 3948.58; — Elsberg, F.12.6; — Gurney, 4042.78; — Guthrie, 3969.79; — Helmholtz (several works); — Herschel, 3921.21; — Prof. Peirce (pub. in 1826), 3943.26; — Piper, 3969.87; — Taylor, 4048.56; 4049.65; — Tyndall, 3968.65; 3943.28; 3918.54.2. Treatises on acoustics are included in works on Natural philosophy (to be found in the Bates Hall Card catalogue under the word Physics). Examine also the cards under the headings Ear and Music.

Acrostics, A book of. Hood, T., *jr.*, and Broderip, F. F. Excursions into puzzledom 1184.9

Shelf. No.

Adams, C. F., *jr.* Notes on railroad accidents 1193.6
Adams, Harriet A. Allegories of life. By Mrs. J. S. Adams 118.26
Adams, Henry G. Beautiful butterflies 1164.11
Beautiful shells 1164.12
Humming birds 1172.1
Nests and eggs of familiar birds 1172.2
Adams, W. H. D. Animal life throughout the globe. An illustrated book of natural history 1178.22
The monsters of the deep: and curiosities of ocean life. A book of anecdotes, traditions, and legends 1176.19
Plain living and high thinking 1132.9
The secret of success; or, how to get on in the world 1132.5
Woman's work and worth in girlhood, maidenhood, and wifehood. With hints on self-culture [etc.] 1123.17
Adrift on the black wild tide. [On the yellow fever.] Kane, J. J. 1114.12
Adulterations. Felker, P. H. "What the grocers sell us" 1171.20
Also in the Bates Hall: — Accum, 5979a.14; — Hassall, 3978.70; — Hehner (adulteration of butter), 3978.80; — Sharples, *3764.69.1; — also several works in French and German. See also books on Food, and Pharmacy.
Adventures with animals 176.35
Aerial world, The. Hartwig, G. 1161.2
Aëronautics. Wise, J. Through the air: a narrative of forty years' experience as an aëronaut 1161.1
See also under this heading in the Bates Hall Card catalogue: — Fonvielle, 3969.71 (also other works by him in French); — Glaisher, 5962.19; — Mansfield, 3968.81; — Pettigrew, 3768.55; — Tissandier, in French, 2629.70; 3966.66; 3962.59; — Turnor, *3960.7; also several books in French, in a part of which the use made of balloons during the siege of Paris is described.
Africa. The land of the lion; or, adventures among the wild animals of Africa 1175.22
Parry, F. C. African pets; or, chats about our animal friends in Natal 1171.8
Agassiz, Elizabeth C. A first lesson in natural history ..... No. 4 in 1168.11
Agassiz, L., and **Gould**, A. A. Principles of zoölogy. Part 1. Comparative physiology. New ed. 1149.16
For a list of the writings of Agassiz consult the Card catalogue of the Bates Hall.

Shelf. No.

Agricultural chemistry. Johnson, S. W. How crops feed 1175.29

Also in the Bates Hall: — Caldwell, 3977.57; — Johnston (ed. of 1877), 3978.81; etc.

Agricultural machinery. Wrightson, J. .. 1192.1.10

Agriculture. Allen, R. L. American farm book 1164.2

Allen, R. L. New American farm book 166.10

Beecher, H. W. Pleasant talk about fruits, flowers and farming 1166.8

Beeton, S. O. All about country life 1164.4

Burn, R. S. Outlines of modern farming. 5 v. 150.1

How we saved the old farm, and how it became a new farm 1161.6

Loring, G. B. The farm-yard club of Jotham 1161.4

Tanner, H. The Abbotts farm; or, practice with science 160.34

Waring, G. E., *jr.* Village improvements and farm villages 1149.25

See also Botany, Cattle, Domestic animals, Fruits, Gardening, Plants, Poultry, Vegetables. Also the Bates Hall Card catalogue.

Air. Hartley, W. N. Water, air and disinfectants 1158.34

See also Health and hygiene, Ventilation.

In the Bates Hall there are books upon air in its relations to health, by the following authors: — Derby, *5765.53; — G. B. Emerson, 7760c.1; — Fox, 3767.84; — Gairdner, 5709.4; — Hartley, 3768.85.

Aitken, W. C. Guns, nails, locks, wood screws, railway bolts and spikes, buttons, pins, needles, saddlery, electroplate. (*In* Bevan's British manufacturing industries) 1192.1.3

Album comique, The. A collection of popular comic songs. Brainard, S., *compiler.* 201.17; 201.23

Alcohol. Bacon, G. W., *compiler.* Alcohol at the bar 1128.26

Opinions adverse to the use of alcohol as a beverage.

Greenfield, W. S. Alcohol: its use and abuse 1174.16

See also Intemperance, Temperance.

Alcott, A. B. Peabody, E. P. Record of [his] school. 3d ed. 1155.12

Alcott, W. A. Courtship and marriage 127.5

Alden, W. L. The canoe and the flying proa. 1181.3

Algebra, New elementary. Davies, C. 1147.8

Alkalies and alkaline salts, The manufacture of. Church, A. H. 1192.1.4

All about country life. Beeton, S. O. 1164.4

All about everything: a dictionary of practical recipes and every-day information 1180.3

All about gardening. Beeton, S. O. 1164.5

All around the house; or, how to make homes happy. Beecher, E. W. 1123.3

Allegories of life. Adams, H. A. 118.26

Allen, J. H. Fragments of Christian history, to the foundation of the holy Roman empire 1113.6

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New American farm book 166.10

Alphabets. Prang, L., and co. Standard alphabets 1204.10

In the Bates Hall are illustrated specimens of alphabets by Ames, 6118.17; — Becker, *6118.25; — Berri, *8074.7; — Copley, 2118.8; — Delamotte, *2115.27; *2115.37; *2115.38; — Fry, *2111.3; — "Handbook of alphabets," *6118.12; — Owen Jones, *2126.9; — Klimsch, *6110a.13; — Lyford, *6110a.5; — "Monogram and alphabet album," 6111.4; — Pott, 2119.9; — Shaw, *2110.12; — Silvestre, *2110.3.

Am I too late? A series of devotional instructions. Coghlan, W. E. 1118.27

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Amateur mechanic's, The, workshop. Lukin, J. 190.15

Amateur poacher, The 1176.25

American card-player, The 1186.9

American code, The, of manners 134.25

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American health primers. *Namely:* —

Burnett, C. H. Hearing, and how to keep it. 1174.23

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Richardson, J. G. Long life, and how to reach it 1174.27

Wood, H. C. Brain-work and over-work .. 1174.31

American house-carpenter, The. Hatfield, R. G. 201.21

American Hoyle, The. Dick, W. B. .. 184.37; 1181.2

American science series. *Namely:* —

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Packard, A. S., *jr.* Zoölogy for high schools and colleges 140.3

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Ames, F. Modern whist. With the laws of the game 180.122

Ammunition, percussion-caps and cartridges. Lindsey, G. 1192.1.3

Amongst machines. Lukin, J. 1195.18

Amusement without end. Planché, F. D'A. 1187.8

Amusements. *See* Recreative arts.

Anchors and chain cables. Lindsey, G. 1192.1.3

Anderson, J. H. The fashionable science of parlor magic 1189.6

Anderson, R. B., and others, *translators.* Viking tales of the North [etc.] 1082.8

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Angel, H. Practical plane and solid geometry 1149.13

Angling. *See* Fish and fishing.

Animal mechanism. Marey, É. J. 1167.16

Animal physiology. *See* Physiology.

Animal sagacity. Hall, A. M. 175.31

Animals. Achard, É. The history of my friends; or, home life with animals 1175.21

Adams, W. H. D. Animal life throughout the globe 1178.22

Adventures with animals 176.35

The animals of the Bible 1175.23

Arthur, T. S. Feet and wings 1173.13

Chatterbox album of animals 171.10

The children's picture-book of the sagacity of animals 1178.25

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Our zoölogical friends 1171.2

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Half hours with the animals 1175.24

Hall, A. M. Animal sagacity 175.31

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Kingston, W. H. G. Stories of animal sagacity 1178.10

Lindsay, W. L. Mind in the lower animals in health and disease. 2 v. 1171.9

Maskell, *Mrs.* A. E. A. Four feet, wings, and fins 1154.12

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Parry, F. C. African pets; or, chats about our animal friends in Natal 1171.8
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Timbs, J. Curiosities of animal life.....1164.22
Weir, H. Pictures of birds and other family pets 171.11
Wild animals in freedom and captivity..... 1175.7
Wood, J. G. Strange dwellings. Being a description of the habitations of animals.. 175.32

See also Domestic animals, Elephant, Monkeys, Natural history, and the Bates Hall Card catalogue, under the headings Natural history, Quadrupeds, Zoology, etc.

Animals, The, of the Bible.....1175.23
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Appledore cook book, The. Parloa, M..... 1189.7
Appleton, T. G. Boston museum of the fine arts. A companion to the catalogue.....1207.19
Aquarium, The: its inhabitants, structure, and management. Taylor, J. E.....1164.21
Archer, T. C. Paper.....1192.1.8
Wool, and its applications.....1192.1.6

These works are both in Bevan's British manufacturing industries.

Archery. Hancock, H. J. B. 180.109

See also in the Bates Hall two recent books by Maurice Thompson, 4006.71 and 6009a.90; and articles in the popular recreator, 181.3.2.

Arches. Bland, W. Arches, piers, buttresses, etc..... 1202.7
Hart, J. A practical treatise on the construction of oblique arches..... 190.10
Architecture. Dwyer, C. P. The immigrant builder; or, practical hints to handy-men. 196.33
Eassie, W. Healthy homes..... 207.33
Gardner, E. C. Homes, and how to make them 207.34
Illustrated homes: papers describing real houses and real people.....1207.11
Holly, H. H. Modern dwellings in town and country 1201.4
Horton, C. W. Architecture for general students 1207.6
Mitchell, T. The stepping-stone to architecture.....1209.27
Rogers, F. The architect's guide.....1202.14
Rural architecture; being a series of designs for rural and other dwellings..... 199.30
Viollet-le-Duc, E. E. The story of [the building of] a house 206.14
Wightwick, G. Hints to young architects..1193.12

See also Arches, Bricklaying, Building, Carpentry, Drawing, Gothic architecture, Ventilation.

A list of books on Architecture in the Bates Hall, with notes, can be found in the Bulletin for October, 1875 (No. 35), page 429. Among those received since that time are the following: —

Dictionaries. — Bosc (in French), *8092.7; — Gwilt (new ed.), *4107.4.

History. — Fergusson (new ed.), *4103.22; — Lesueur (in French), 4091.63; — Scott, 4096.54; — Zerffi, 4079.29.

Periodicals. — American architect, *6990.1; — American builder, *7340a.3; The architect, *6972.1, etc.

Practical works. — Atwood, 4106.11; — Bicknell, 4096.51; — Boxer, *8030a.7; — Corfield, 5769.24; — Cottages, 4109.11; — "Model houses for the industrial classes" (new ed.), 4097.10; Hussey, 4093.61; — Mason (alteration of houses), 4094.53; —

Shelf. No.

Architecture, *continued.*
Palliser, *8100a.3 and 4094.54; — Reed, 4098.8; — Rogers, 4099.36; — Woollett, 4099.42; (remodelling), 8092.6; — Young (5th ed.), *8019a.30.

More scientific works. — Beckett, 4099.17; — Narjoux, 4097.6; — Pennethorne, **C.F.14.1; — Robson, *C.B.2.2; — Rosengarten, 4097.9; — Ware, 4090.74; — Young, **8100a.4, and the works of Viollet-le-Duc, and others.

See also in the Bates Hall Card catalogue, under the names of countries, division 44*b* ("Fine arts," subdivision, Architecture).

Arena, The, and the throne. [Lectures on astronomy.] Townsend, L. T..... 1144.7
Argyll, *Duke of. See* Campbell, G. D., *8th duke of Argyll.*
Ariadne Florentina. Ruskin, J. 1203.3
Arithmetic. Arman, A. The stepping stone to arithmetic; exercises in the first four rules 1149.5
Goodrich, D. W. The art of computation..1169.66
Haddon, J. Rudimentary arithmetic 1149.6
Howard, C. F. Howard's California calculator..... 147.32
Orton, H. D. Orton's lightning calculator.. 138.31

See also the Bates Hall Card catalogue.

Arlot, —. A complete guide for coach painters.1193.14
Arman, A. The stepping stone to arithmetic; exercises in the first four rules 1149.5
Armour, J. Power in motion..... 190.38
Arms, Coats of. Prang, L., and co. Standard alphabets. The State arms of the Union, etc. 1204.10
Arnold, F. Turning-points in life..... 1137.3
Arnoux, L. Pottery. (*In* Bevan's British manufacturing industries) 1192.1.7
Art. Cheney, E. D. Gleanings in the fields of art..... 206.28
Clement, C. E. Handbook of legendary and mythological art 1087.29
Harding, J. D. Lessons on art 201.22
Hunt, W. M. Talks on art..... 202.28
Jameson, A. M. Sacred and legendary art. 1207.28
Ruskin, J. Art culture: a hand-book of art technicalities and criticisms..... 1203.7
The eagle's nest. Ten lectures on the relation of natural science to art, 1872. 1207.4
Urbino, L. B., Day, H., and others. Art recreations 1196.5

See also Decoration, Drawing, Fine arts, Massachusetts art teachers' association, Music, Painting, and the Bates Hall Card catalogue under Fine arts and names of countries, division 44 (Fine arts).

Art at home series. *Namely:* —
Garrett, R. and A. Suggestions for house decoration 1207.18
Glaister, E. Needlework 1182.11
Leland, C. G. The minor arts.....1204.18
Art, The, of amusing. Bellew, F. 1189.13
Art, The, of money making. Mills, J. D. ... 1137.6
Art, The, of pleasing. Feydeau, E. 1196.7
Art-needlework for decorative embroidery. Hale, L. P. 1201.5
Arthur, R. Treatment and prevention of decay of the teeth..... 177.7
Arthur, T. S. Feet and wings; or, among the beasts and birds with Uncle Herbert.....1173.13
Artist's assistant 1202.1
Artist's portfolio, Gatherings from an. Freman, J. E.....1206.12
Artizans', The, guide. Moore, R.....1207.7; 1209.29
Arts, A dictionary of. Ure, A. 3 v. R.R.,D.17
Arts, The, of beauty. Lola Montez, M. D. E. R. G. 1196.6
Asgard and the gods. Waegner, W..... 2081.2
Assaying, Practical blowpipe. Attwood, G... 1142.9
Astrology. The coming catastrophe, being a prediction by C. A. Grimmer [and others]. 1118.29

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Astronomy. Benn-Walsh, J., *lord Ormathwaite.* Astronomy and geology compared. 149.9
Butson, A. A. S. On the leads; or, what the planets saw 1163.11
Findlater, A. Astronomy 1159.43
Giberne, A. Sun, moon, and stars: A book for beginners 1163.8
Lockyer, J. N. Astronomy 1156.8
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Moore, A., and Nichols, L. D. Overhead .. 1161.5
Newcomb, S. Popular astronomy 1151.4
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Proctor, R. A. The expanse of heaven 1144.8
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Our place among infinities 1156.10
The poetry of astronomy 1163.10
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Townsend, L. T. The arena and the throne. 1144.7

See also Earth, Moon, Optics, Stars, Sun.

The following, in the Bates Hall, are popular works, and in English: — Airy, 5929a.11; — Arago, 5926.8; — Ball, 5918.71 and 5929a.61; — Beckett, 7924.21; — James Freeman Clarke, 5929a.21; — Flammarion (several works in French and English); — Godfray, 3927.61; — Guillemin, 5911.11 and 13; — Herschel (several works); — Johnston, 5920.6; — Kiddle, 5926.59; — Rambosson, 3926.72 and 3927.76; — Rolfe and Gillet, 5926.9 and 10; — Rollwyn ("Astronomy simplified"), 7920a.6; — Scarle, 3928.62; — Steele, 5924.28 and 5926.38; — Webb, 5926.15; — White, 7924.50; etc.

Athlete's, The, guide. Harding, W. E. 137.11
Athletic sports for boys 180.69
Atkinson, E. Labor and capital allies not enemies 1135.12
Atmosphere, The aerial world: a popular account of the phenomena and life of the. Hartwig, G. 1161.2
Atoms. Wuertz, C. A. The atomic theory. 1147.22
Attwood, G. Practical blowpipe assaying .. 1142.9
Aunt Carrie, *pseud.* *See* Smith, Caroline L.
Aunt Charlotte's stories of Bible history. Yonge, C. M. 2106.27
Autumnal catarrh (hay-fever). Wyman, M. 155.5
Awdry, *Mrs.* W. Easy lessons in light 1141.9
Axon, W. E. A., *editor.* The mechanic's friend. 190.16

Backgammon, Draughts and. Hardy, F. .. 180.113
Bacon, G. W. The young man's guide to success 1132.6
Bacon, G. W., *compiler.* Alcohol at the bar. 1128.26
Opinions adverse to the use of alcohol as a beverage.

Badenoch, J. G. The art of letter painting made easy 1202.10
Bagatelle. *See* Pardon, G. F. Billiards 1186.8
Bagehot, W. Physics and politics 1132.7
Baille, J. Wonders of electricity 145.15
Baily, W. L. Our own birds. A familiar natural history of the birds of the United States 172.26
Baird, J. The management of health 1157.32
Baker, T. The mathematical theory of the steam engine 1199.37
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Bale, M. P. How to manage a steam engine. 1193.10
Balfour, J. H. First book of botany. 166.39; 1179.25
Ball, R. S. Experimental mechanics 194.2
Ball-room companion. Beadle, E. F. No. 1 in 1197.13
Ballantyne, R. M. The ocean and its wonders 1176.18
Ballard, Julia P. Insect lives; or, born in prison 1179.29

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Banjo, The, and how to play it. Converse, F. B. 1209.25
Banks and banking. Richardson, H. W. The national banks. 1880 ..... 1139.19
Barff, F. S. Glass and silicates. (*In* Bevan's British manufacturing industries) 1192.1.7
Baring-Gould, S. Sermons to children 1127.11
Barker, Mary A., *lady.* First lessons in the principles of cooking 1189.9
Houses and housekeeping 1189.21
Barnard, F. A. P. The metric system of weights and measures. 3d ed. 192.1
Barometer, Aneroid: how to use it 1142.8
Barrett, J. O., and **Peebles,** J. M. The Gadarene: or, spirits in prison 1127.6
Bartlett, G. B. Parlor amusements for the young folks 1367.15
Bartley, G. C. T. Toys. (*In* Bevan's British manufacturing industries) 1192.1.8
Base-ball. Chadwick, H. Beadle's base-ball player 180.120
Bassini, C. Bassini's art of singing 201.18
Bastian, H. C. The beginnings of life: some account of the nature, modes of origin and transformations of lower organisms. 2 v. 176.41
Baths and bathing 1174.18; 1174.21
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Beadle, E. F. Ball-room companion and guide to dancing ..... No. 1 in 1197.13
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Beecher, Catharine E. Housekeeper and healthkeeper 1185.3
Woman's profession as mother and educator, with views in opposition to woman suffrage. 1126.34
Beecher, Catharine E., and **Stowe,** Harriet B. The new housekeeper's manual 1189.5
Beecher, Eunice W. (*Mrs. Henry Ward Beecher.*) All around the house; or, how to make homes happy 1123.3
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Bees. Pagden, J. W. $350 a year; how I make it by my bees 1167.20
Beeton, Isabella M. Beeton's every-day cookery and housekeeping book 186.55
Beeton, S. O. All about country life 1164.4
All about gardening 1164.5
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Beginnings, The, of life. Bastian, H. C. 2 v. 176.41
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Bemrose, W., *jr*. Fret cutting and perforated carving 1202.2

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Benjamin, P., *editor*. Wrinkles and recipes, compiled from the Scientific American...1187.11

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Bevan, G. P. The industrial classes, and industrial statistics. 2 v. ....Vol. 15, 16 of 1192.1

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Bevan, G. P., *editor*. British manufacturing industries. 16 v. 1192.1

Contents.—Vol. [1.] Iron and steel, by W. M. Williams; Copper smelting, by J. A. Phillips; Brass founding, tin plate and zinc working, by W. Graham. [2.] Metallic mining and collieries, by W. W. Smyth; Coal, by A. Gallctly; Building stones, by E. Hull; Explosive compounds, by W. M. Williams. [3.] Guns, nails, locks, wood screws, railway bolts and spikes, buttons, pins, needles, saddlery, electroplate, by W. C. Aitken; Pens and papier-mâché, ammunition, percussion caps and cartridges, anchors and chain cables, by G. Lindsey. [4.] Acids, alkalies, soda, ammonia, and soap, by A. H. Church; Oils and candles, by W. M. Williams; Gas and lighting, by R. H. Patterson. [5.] Hosiery and lace, by W. Felkin; Carpets, by C. Dresser; Dying and bleaching, by T. Sims. [6.] Wool, and its applications, by T. C. Archer; Flax and linen, by W. T. Charley; Cotton, by I. Watts; Silk, by B. F. Cobb. [7.] Pottery, by L. Arnoux; Glass and silicates, by F. S. Barff; Furniture and woodwork, by J. H. Pollen. [8.] Paper, by T. C. Archer; Printing, by J. Hatton; Bookbinding, by H. T. Woods; Engraving, by S. Davenport; Photography, by P. Le Neve Foster; Toys, by G. C. T. Bartley. [9.] Tobacco, by J. Dunning; Hides and leather, gutta-percha and India-rubber, by J. Collins; Fibres and cordage, by P. L. Simmonds. [10.] Ship building, by B. Pim; Telegraphy, by R. Sabine; Agricultural machinery, by S. Wrightson; Railways and tramways, by D. K. Clark. [11.] Jewellery, by G. Wallis; Gold working, by C. Boutell; Watches and clocks, by F. Britten; Musical instruments, by E. F. Rimbault; Cutlery, by F. Callis. [12.] Salt, preserved provisions, bread, biscuits, by J. J. Manley; Sugar refining, by C. H. Gill; Butter and cheese, by M. Evans; Brewing and distilling, by T. Pooley. [13.] Sea fisheries, by E. W. H. Holdsworth; Salmon fisheries, by A. Young. [14.] Horticulture, by F. W. Burbidge. [15, 16.] The industrial classes, and industrial statistics, by G. P. Bevan.

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Howson, J. S. The metaphors and companions of St. Paul.....1118.18

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Visits to Aunt Clement; or, conversations on the connection between the Old and New Testaments..... 1418.7

Yonge, C. M. Aunt Charlotte's stories of Bible history.....2106.27

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Contents.—The Bible as a source of general information; as a health guide; Bible health hints regarding food, drink, air, exercise, sleep, cleanliness, clothing, dwellings, sewerage, disinfection and disease prevention, etc.

Bible pictures; or, life-sketches of life-truths. Ide, G. B. 2102.12

Bible, The, regained, and the God of the Bible ours. Lee, S. 2087.8

Bicycle. Pratt, C. E. The American bicycler 1180.11

Spencer, C. The bicycle: its use and action.. 197.39

See articles on bicycling in The popular recreator, 181.3.1.

Billiards. Hardy, F. The A B C of billiards.180.112

Pardon, G. F. Billiards. Its theory and practice 1186.8

In the Bates Hall are books on billiards by Bennett, 4007.51;—Garnier, 6008.85;—Phelan, 6003.14;—Roberts, 6003.2.

Binns, W. An elementary treatise on orthographic projection. 7th ed. 206.10

Biology. Bastian, H. C. The beginnings of life. 2 v..... 176.41

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Stevenson, S. H. Boys and girls in biology.1167.19

In the Bates Hall:—Agassiz ("The structure of animal life"), 5895.10; — Beale, 3768.71 and 3768.74; — Chapman, 3825.50; — Huxley (several works); — Letourneau, 3767.71; — MacAlpine ("Biological atlas"), 3881.56; — Nicholson, 3769.58; — Paterson, 3828.81; — Herbert Spencer, 5606.18; — Wythe, 3764.75; — and other works. See also the cards under the headings Evolution, Physiology, Protoplasm, Species, Zoology.

Bird, J. and H. The singing school companion: a collection of secular and sacred music..... 1206.9

Birds. Adams, H. G. Nests and eggs of familiar birds..... 1172.2

Baily, W. L. Our own birds. A familiar natural history of the birds of the United States 172.26

Berthoud, H. Stories of bird life.....1178.17

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Dixon, C. Rural bird life; essays on ornithology 1171.10

Dyson, C. E. Bird-keeping. The management of cage birds.....177.47; 1154.6

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Holden, C. F. Holden's book on [cage] birds.....1178.20

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Morris, F. O. Letters to the "Times" about birds, etc.....1176.26

Percy, *Grandfather*, *pseud*. The homes of the birds; or, nests and their builders.... 1178.6

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Birds, *continued.*
Stannard, H. Outdoor common birds: their habits and characteristics 1179.27
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See also Canary, Humming birds, Parrots, Pigeons.

Books in the Bates Hall on birds, excepting cage birds, will be found under the heading Ornithology, and under the names of countries, division 96 (Ornithology).

The Bulletins, No. 29, April, 1874, page 232, and No. 52, January, 1880, page 173, contain a list of the books in the Public Library on ornithology.

Biscuits. Manley, J. J. 1192.1.12
Black, J. R. The ten laws of health; or, how disease is produced and can be prevented. 1157.31
Black, W. A practical treatise on brewing.. 190.39
Blackstone, *Sir* W. Commentaries on the laws of England. With additions by E. Christian. 4 v. 1136.32
Blaikie, W. How to get strong and how to stay so 1173.8
Blake, E. T, Sewage poisoning: how to avoid it in the cheapest and best way 1173.24
Bland, W. Arches, piers, buttresses, etc.... 1202.7
Blaserna, P. The theory of sound in its relation to music 1207.16
Bleaching. Sims, T. 1192.1.5
Bliss, P. P. Nason, E. The American evangelists 2102.16
Bliss, P. P., and **Sankey**, I. D. Gospel hymns and sacred songs. As used in Gospel meetings. 2 v. 1207.15
Song victories of "The Bliss and Sankey hymns" 1117.19
Bloomfield, R. The bird and insects' post-office 171.15
Blowpipe assaying, Practical. Attwood, G. 1142.9
Bloxam, C. L. Metals: their properties and treatment 1142.17
Boats and boating. Alden, W. L. The canoe and the flying proa 1181.3
Chadwick, H. Hand-book of yachting and boating ..... No. 3 in 1197.13
Frazar, D. Practical boat-sailing 1186.10
Kingston, W. H. G. The boy's own book of boats 1187.14
Warren, T. R. Shooting, boating and fishing, for young sportsmen 178.6

See also Yachts.

In the Bates Hall are books on boats by Biddle, 3956.61; — Brickwood (rowing and training), 4007.62; — Folkard (1870), 3956.50; — Kemp, 3952.61; — Nelson ("Boat building"), 3959.80; etc.

Bodines; or, camping on the Lycoming. Up de Graff, T. S. 1195.23
Bogardus, A. H. Bogardus' trip to England. Containing sketches of western shooting; also, an account of the international rifle match. 1875 ..... 1175.31
Field, cover, and trap shooting 1175.12
Bohlen lectures, The, 1879. Brooks, P. The influence of Jesus 1114.16
Boiler and factory chimneys. Wilson, R. 190.56
Boilermaker's, The, assistant. Courtney, J. 190.6
Bond, —. Child's question book of useful knowledge 1142.10
Bond, A. L. Tiny's natural history in words of four letters 171.16
Book, The, and its story. Ranyard, L. N.... 118.14
Bookbinding. Woods, H. T. 1192.1.8
Book-keeping. Comer, G. N. Book-keeping rationalized 1135.7
Ernst, H. Accountant and book-keeper's manual of commercial calculations 1132.3

Among recently published books in the Bates Hall on book-keeping are: — Bryant and Stratton, 3938.66; — Duff, 5681.3; — Groesbeck, 3932.52; — Packard, 5936.58.

Shelf. No.

Bornstein, M. Manual of instruction in the use of dumb-bells, Indian clubs and other exercises 1187.15
Boston, *Mass. Museum of fine arts.* Appleton, T. G. A companion to the catalogue. 1207.19
Boston society of natural history. Guides for science-teaching. No. 1–4. Pph. v. 1168.11

Contents. — **1.** About pebbles, by A. Hyatt. **2.** Concerning a few common plants, by G. L. Goodale. 2d ed. **3.** Commercial and other sponges, by A. Hyatt. **4.** A first lesson in natural history, by Mrs. [E. C.] Agassiz. New ed.

Botany. Balfour, J. H. First book of botany. 166.39; 1179.25
Bessey, C. E. Botany for high schools and colleges 140.2
Cooke, M. C. The woodlands 1164.6
Dunster, H. P. The young collector's handy-book of botany 168.3
Goodale, G. L. Concerning a few common plants ..... No. 2 in 1168.11
Gray, A. Botany for young people. Part 2. How plants behave, etc. 166.38
Lessons in botany 164.11
Hooker, *Sir* J. D. Botany 1167.21
Kitchener, F. A. A year's botany 1167.17
Lankester, P. Talks about plants; or, early lessons in botany 1163.6
Wild flowers worth notice 1158.28
Lemaout, E. Flower object lessons; or, first lessons in botany 1179.26
Masters, M. T. Botany for beginners 169.45
Wood, A., and Steele, J. D. Fourteen weeks in botany 1171.14

See also Ferns, Flowers, Plants, Trees, Vegetation.

For other books, the cards in the Bates Hall can be examined under Botany and other headings mentioned there, as the names of various orders, plants, flowers, trees, etc.; also the names of countries, division 18 (Botany).

Bouquet, The: a collection of vocal music. Southard, L. H., and Pratt, G. W. 1206.8
Boutell, C. Gold working. (*In* Bevan's British manufacturing industries) 1192.1.11
Boutell, Mary E. C. Picture natural history. 1175.5
Boxing. Donnelly, N. Self-defence; or, the art of boxing 1180.8
Sampson, H. Modern boxing 1181.5
Boy engineers, The: what they did and how they did it. Lukin, J. 1204.2; 1204.3
Boy joiner, The. Davidson, E. A. 1203.13
Boy's own book: encyclopædia of sports and pastimes. 1872 ..... 1189.12
Same. 1877 ..... 1188.2
Boy's, The, own book of boats. Kingston, W. H. G. 1187.14
Boys, A book about. Moncrieff, R. H. 1126.29; 1126.31
Boys and girls in biology. Stevenson, S. H. 1167.19
Boys and their ways 1137.13
Brackett, Anna C., *editor.* The education of American girls. A series of essays 1155.13

Contents. — Education of American girls, by Anna C. Brackett; A mother's thought, by Edna D. Cheney; The other side, by Caroline H. Dall; Effects of mental growth, by Lucinda H. Stone; Girls and women in England and America, by Mary E. Beedy; Mental action and physical health, by Mary P. Jacobi; Michigan university, by Sarah D. Hamlin; Mount Holyoke seminary, by Mary O. Nutting; Oberlin college, by Adelia A. F. Johnston; Vassar college, by Alida C. Avery; Antioch college; Letter from a German woman, by Mrs. Ogden N. Rood; Review of "Sex in education," by Anna C. Brackett; Appendix.

Bradlaugh, C. A few words about the Devil [etc.] 2106.26
Brady, W. N. The kedge-anchor; or, young sailors' assistant 194.6

Shelf. No.

Brain. Brown-Séquard, C. E. Have we two brains? ... 1151.2
Clarke, E. H. The building of a brain ... 1159.30
Wood, H. C. Brain-work and over-work .. 1174.31

In the Bates Hall are treatises in English by Bastian, 7603.66 and 3808.61; — Brown-Séquard, *3350.2.15; — Calderwood, 3804.62; — Dowse, 3806.74 and 3806.75; — Ferrier, 3806.62; — Todd, 5804.19; and other works in English, French and German.

Brainard, S., *compiler.* The album comique. A collection of popular comic songs. 201.17; 201.23
Song diamonds. A collection of songs ... 201.16
Brasier de la Vauguyon, L. H. Guide to painting on porcelain and earthen-ware .. 1204.16
Brass founding. Graham, W. Brass founding ... 1192.1.1
Graham, W. The brassfounder's manual .. 1149.7
Bread. Manley, J. J. ... 1192.1.12
Breakfast, luncheon and tea. [Cook book.] Terhune, M. V. ... 1189.14
Brent, *Mrs.* C. Down among the water weeds; or, the marvels of pond life ... 1164.26
Brewing. Black, W. A practical treatise on brewing ... 190.39
Piesse, C. H. Chemistry in the brewing-room ... 190.48
Pooley, T. Brewing and distilling ... 1192.1.12
Scamell, G. Breweries and maltings: their arrangement, construction, machinery, and plant ... 192.3
Wright, H. E. A handbook for young brewers ... 190.41
Bricklaying. Davidson, E. A. Drawing for bricklayers ... 1193.11
Hammond, A. The rudiments of practical bricklaying ... 190.45
Laxton, H. Bricklayers' tables ... 190.47
Brisbin, J. S. The beef bonanza; or, how to get rich on the plains ... 1164.10
British manufacturing industries. Bevan, G. P., *editor.* 16 v. ... 1192.1
Britten, F. Watches and clocks. (*In* Bevan's British manufacturing industries) ... 1192.1.11
Broad, broad ocean, The, and some of its inhabitants. Jones, W. ... 1163.7
Brooks, E. The normal elementary geometry: embracing a treatise on mensuration ... 1149.20
Brooks, F. Sermons. [Edited by Phillips Brooks] ... 2102.9
Brooks, Phillips. The Bohlen lectures, 1879. The influence of Jesus ... 1114.16
Lectures on preaching, before the Divinity school of Yale college in 1877 ... 1124.5
Sermons ... 1114.9
Brother Placidus, and why he became a monk. 2107.33
Brown, A. C. Chemistry ... 1159.45
Brown, C. M., and **Gates,** C. L. Scissors and yardstick; or, all about dry goods ... 1198.25
Brown, G. Gideon Brown: a true story of the covenant, and of the persecution in Scotland, as related by himself ... 2096.22
Brown, Henry T. Five hundred and seven mechanical movements ... 1197.12
Brown, Howard N. Sunday stories ... 1113.5
Brown, J. Health: five lay sermons to working-people ... 160.32
Brown, R., *editor.* Science for all. 3 v. ... 141.5
Brown-Séquard, C. E. Have we two brains? [And] Lectures on the nerves. (*In* Tribune popular science) ... 1151.2
Browne, Phillis, *pseud.?* What girls can do: a book for mothers and daughters ... 120.6
Browne, W. H. Minor fireworks: containing instructions for the manufacture of the common and simple varieties of fireworks. 1141.11

Shelf. No.

Buchan, W. Plumbing ... 190.40
Buckland, F. Log-book of a fisherman and zoologist ... 1175.17
Buckley, Arabella B. The fairy-land of science ... 1155.18; 1155.19
Life and her children. Glimpses of animal life ... 1146.4
A short history of natural science and of the progress of discovery from the time of the Greeks to [1876] ... 1147.11

Very attractive and interesting books.

Buckmaster, S. Cookery. With recipes and menus ... 1189.11
Buckton, Catherine M. Food and home cookery ... 1180.5
Buddha and Buddhism. Davids, T. W. R. Buddhism: life and teachings of Gautama, the Buddha ... 2101.10
Mueller, Max. Lectures on the science of religion; with a paper on Buddhist nihilism ... 2096.21

Books on Buddhism are described in Bulletin No. 40, January, 1877, page 178. In Edwin Arnold's "Light of Asia," a recent book, the life and teachings of Buddha are described in verse, Bates Hall, 3028.53 and 54.

Buffon, G. L. L., *comte* de. Natural history ... 176.27
Buhl-work, Manual of. Bemrose, W., *jr.* .. 1202.4
Building. Beaton, A. C. Quantities and measurements: how to calculate and take them ... 1149.4
Burn, R. S. Building construction; showing the employment of brick, stone, and slate in buildings. 2 v. ... 1195.11
Building construction; showing the employment of timber, lead, and iron work, in buildings. 2 v. ... 1195.12
Dobson, E. Rudiments of the art of building. 206.16
Dowsing, W. The timber merchant's and builder's companion ... 190.43
Tarn, E. W. The science of building ... 190.12
The student's guide to the practice of measuring and valuing artificers' works ... 190.13

See also Architecture, Bricklaying, Carpentry.

Building stones, Quarries and. Hull, E. ... 1192.1.2
Bulfinch, S. G. Contemplations of the Saviour ... 119.15
Bullock, C. The best wish ... 1117.23
Bulwer-Lytton, E. G. E. L., *lord Lytton.* On the management of money. (*In* Walker, A. Hints to women on the care of property) ... 1134.5
Burbidge, F. W. Horticulture. (*In* Bevan's British manufacturing industries) ... 1192.1.14
Burgess, J. T. Angling. With a chapter on sea fishing ... 177.46
Elementary gymnastics ... 180.118
Burlesque and musical acting charades. Nugent, E. C. ... 180.103
Burn, R. S. Building construction; showing the employment of brick, stone, and slate in buildings. 2 v. ... 1195.11

Contents.—Vol. 1. Text. 2. Plates.

Building construction; showing the employment of timber, lead, and iron work, in buildings. 2 v. ... 1195.12

Contents.—Vol. 1. Text. 2. Plates.

Outlines of modern farming. 5 v. ... 150.1
Sanitary science, as applied to the healthy construction of houses in town and country. 1173.20
Self-aid cyclopædia for self-taught students. 190.17
The steam engine: its history and mechanism. 195.22

Shelf. No.

Burnell, G. R. Hydraulic engineering. *See* Law, H. Civil engineering.....1196.11
Burnett, C. H. Hearing, and how to keep it.1174.23
Burnham, G. P. The China fowl. Shanghae, Cochin, and "Brahma".....1177.30
A hundred thousand dollars in gold. How to make it..... 1132.8
New poultry book. [4th ed.] 161.4
Burr, E. F. Pater mundi. 2 v. 2096.19

Contents.—Vol. 1. Modern science testifying to the Heavenly Father. 2. Doctrine of evolution.

Business. Freedley, E. T. Common sense in business..... 1134.7
Hand-book for home improvement; comprising How to do business [etc.]..... 1125.1
Hill, T. E. Hill's manual of social and business forms 131.3
Maher, W. H. On the road to riches. Hints for clerks and young business men 1139.15
Welsh, L. G. A practical guide to business 138.19

In the Bates Hall:—"Laws of business," by Prof. Theophilus Parsons, 5674.2;—Tomlinson, *6245.8; both containing business forms.

Butson, A. A. S. On the leads; or, what the planets saw 1163.11
Butter and cheese. Evans, M. 1192.1.12
Buttons. Aitken, W. C.....1192.1.3

Caldor, M. T. Social charades, and parlor operas 1198.18
California calculator. Howard, C. F. 147.32
Calkins, N. A., and **Diaz**, Abby M. Prang's natural history series for children. 6 parts in 1 v. 171.12

Contents.—Swimming birds; Scratching birds; Wading birds; Birds of prey; Cat family; Cow family.

Callis, F. Cutlery. (*In* Bevan's British manufacturing industries).....1192.1.11
Camp cure. Mitchell, S. W. 1159.47
Campbell, G. D., *8th duke of Argyll.* Primeval man..... 1096.6
Campin, F. A treatise on the application of iron to the construction of bridges, girders, roofs, and other works..... 199.44
Camping out. Gould, J. M. Hints for camping and walking. How to camp out.1195.21
Up de Graff, T. S. Bodines; or, camping on the Lycoming.....1195.23
Canary, The: its varieties, management, and breeding. Smith, F.....1164.20
Candèze, E. The curious adventures of a field cricket..... 1154.4
Candles, Oils and. Williams, W. M. 1192.1.4
Canoe, The, and the flying proa. Alden, W. L. 1181.3
Capen, N. Reminiscences of Spurzheim and G. Combe: and a review of phrenology.. 124.27
Capital and labor. Atkinson, E. Labor and capital allies not enemies.....1135.12
Carbon process in photography. Liesegang, P. E. 1142.19
Cards. The American card-player..... 1186.9
Cheney, E. D. Patience: a series of thirty games with cards.....1198.17
Social games. A collection of 31 games with cards.....1198.16
Jones, H. Card essays. Clay's decisions and card-table talk..... 1183.7

See also Bésique, Cribbage, Euchre, Whist.

Carpenter, W. B. Mesmerism, spiritualism, etc. 1127.10

Shelf. No.

Carpentry. Davidson, E. A. The boy joiner and model maker.....1203.13
Davidson, E. A. Drawing for carpenters and joiners.....1193.15
Every boy his own manufacturer, containing instructions in carpentry, etc. 1193.3
Hatfield, R. G. The American house-carpenter 201.21
Tredgold, T. The elementary principles of carpentry 190.51

Consult in the Bates Hall works by Bell, 8010a.13;—Davidson ("Amateur house carpenter"), 4012.55;—Monckton, 4091.50;—Nicholson (pub. about 1854), *4020.8; *4090.17; *4012.15;—Riddell (3d ed., 1880), 8021.11;—Tredgold (3d ed., 1871), 8018.14;—also books on Architecture, Building, Cabinet work, joinery, etc.

Carpets. Dresser, C.....1192.1.5
Carr, J. A synopsis of practical philosophy. 1141.6
Carriage painting. Arlot, —. A complete guide for coach painters 1193.14
Gardner, F. B. The carriage painters' illustrated manual 199.33
Carter, R. B. Eyesight: good and bad.....1174.34
Cartridges. *See* Ammunition.
Carver and gilder 190.41
Carver, The, and gilder's guide, and picture frame maker's companion.....1195.14
Carving. Etiquette of the dinner-table: including carving.....180.119
Merrythought, A. Carving made easy..... 1182.3
Carving, Wood. *See* Wood-carving.
Catacombs. Withrow, W. H. The catacombs of Rome, and their testimony relative to Christianity..... 2087.9

In the Lower Hall Catalogue of books in history, biography, and travel, page 232, and in the Bulletin, No. 52, January, 1880, page 158, are descriptions of books upon the Catacombs.

Catarrh. *See* Autumnal catarrh.
Catechism of the locomotive. Forney, M. N. 1193.5
Cats. The clan of the cats. True stories about the feline animals..... 1174.8
Stables, W. G. "Cats:" their points and characteristics [etc.]..... 1178.7
Cattle. Brisbin, J. S. The beef bonanza; or, how to get rich on the plains.....1164.10
Hodges, J. F. Animals of the farm.....1178.26
Cavalry tactics. 1874. *See* United States..1199.39
"Cavendish," *pseud.* *See* Jones, H.
Caves. Half hours underground.....1147.13
Cazenave, A. Female beauty; or, the art of human decoration. And The art of pleasing: by E. Feydeau..... 1196.7
Ceramics. *See* Pottery.
Chadwick, H. Beadle's hand-book of yachting and rowing.....No. 3 in 1197.13
Chadwick, H., *editor.* Beadle's base-ball player. Comprising the proceedings of the eighth annual base-ball convention, etc., 1864.....180.120
Chadwick, W. J. The magic lantern manual. 1184.7
Chain cables, Anchors and. Lindsey, G.....1192.1.3
Chairman, The, and speaker's guide. 1876. Smith, T. 1139.17
Chamberlin, E. M. The sovereigns of industry 1139.9
Chambers, J. A mad world and its inhabitants 1156.16

The experiences of the author, who, feigning insanity, was confined in an insane asylum in New York city.

Champlin, H. L. The American firemen... 1207.9
Champlin, J. D., *jr.* The child's catechism of common things..... 1146.3
The young folks' cyclopædia of common things R.R.,A.15
The young folks' cyclopædia of persons and places 190.5

Shelf. No.

Charades. Bellew, F. Parlor amusements. Charades [etc.] 1181.8
Caldor, M. T. Social charades 1198.18
De Younge, A. Joy; or, new dramatical charades for home performance 1367.22
Hood, T., *jr.*, and Broderip, F. F. Excursions into puzzledom. A book of charades, etc. 1184.9
Nugent, E. C. Burlesque and musical acting charades 180.103
Pickering, E. Charades for acting 1354.10
Planche, F. D'A. Guess me: a curious collection of enigmas, charades, etc. 185.34
Steele, S. S. The drawing-room plays. A collection of charades, etc. 1354.1
Charades and responses 1187.5
Charley, W. T. Flax and linen. (*In* Bevan's British manufacturing industries) 1192.1.6
Chase, A. W. Recipes; or, information for everybody. With a treatment of pleurisy, inflammation of the lungs [etc.] 188.37
Chateaubriand, F. A. R., *vicomte* de. The genius of Christianity. 9th ed. 2094.6
Chatterbox album of animals 171.10
Chavasse, P. H. Advice to a mother on the management of her children .... No. 1 in 1165.22
Counsel to a mother: a continuation of "Advice to a mother" ..... No. 2 in 1165.22
Checkers. *See* Draughts.
Cheese, Butter and. Evans, M. 1192.1.12
Chemistry. Bernays, A. J. Student's chemistry 1142.16
Brown, A. C. Chemistry 1159.45
Cooke, J. P., *jr.* The new chemistry 1156.15
Principles of chemical philosophy 1147.10
Eliot, C. W., Storer, F. H., and Nichols, W. R. An elementary manual of chemistry 1156.11
Griffin, J. J. Chemical recreations: a popular manual of experimental chemistry 1142.14
Howard, J. Practical chemistry 1159.23
Johnston, J. F. W. The chemistry of common life 1146.2
Kemshead, W. B. Inorganic chemistry ... 1147.3
Piesse, C. H. Chemistry in the brewing-room 190.48
Roscoe, H. E. Chemistry 149.26
Steele, J. D. Fourteen weeks in chemistry. 1171.11
Tilden, W. A. Introduction to the study of chemical philosophy 1158.31
Vogel, H. The chemistry of light and photography 1149.17

See also Agricultural chemistry.

In the Bates Hall, among recent English works, largely elementary, are: — Attfield (7th ed., 1876), 3977.51; — Barker, 3979.64; — Bloxam, 3975.59; 3978.54; — Blyth, 3977.66; — Brande, 3971.11; 5973.1; 7975.1; — Church, 3977.54; — Clowes, 3977.50; — Eliot and Storer ("Manual of inorganic chemistry"), 5975.9; — Fownes, 3977.53; 3978.74; — Frankland, 3973.61; Galloway (First and Second steps), 5979.32; 5978.22; — Graham, 3972.55; — Hoffmann, 5979.1; — Hooker, 3968.52; — Miller (6th ed., 1878), 3974.58; — Mott, 3974.51; — Odling (for medical students), 3976.54; — Odling (Outlines), 5974.5; — Remsen, 3978.79; — Rigg and Goolden, 3978.63; — Rolfe and Gillet, 5978.24; — Roscoe (Elementary ed., 1878), 3977.59; — Roscoe and Jones ("The Owens college junior course," 1872), 3979.57; — Roscoe and Schorlemmer, 3974.55; — Thorpe (inorganic), 3978.71; 5979a.22; — Tidy, 3974.57; — Williamson, 3979.77; — Wochler, 3977.62; — Wurtz (4th ed., 1879), 3977.69; — Youmans, 3978.73; 5978.28; — also the "Encyclopædia of chemistry," *3971.54; — Wagner (chemical technology), 3973.53; — and the dictionaries of Watts (at Reading Room desk), also under the divisions of chemistry: *Analysis, Organic, Technical.* See also Agricultural chemistry, Fermentation, and many other headings found in a list at the beginning of the word Chemistry.

Cheney, Edna D. Gleanings in the fields of art 206.28
Patience: a series of thirty games with cards. 1198.17
Social games. A collection of 31 games with cards 1198.16

Shelf. No.

Chenoweth, *Mrs.* C. van D. Stories of the saints 2101.9
Chess. Hazeltine, M. J. Beadle's chess instructor ..... No. 2 in 1197.13
Hardy, F. Chess for beginners 180.110
Pardon, G. F. Chess: its theory and practice 209.24

In the Bates Hall are: — Angel, 6007.22; — Edge, 6008.53; — Jaenisch, 4002.52; — Löwenthal, 4001.32; — Longman, 6009a.12; — Pierce, 4007.59; — Staunton, 4007.55; 6007.21; — Wormald, 6006.21; etc.

Chevreul, M. E. Painter, gilder, and varnisher's companion 199.11
Chief women; or, higher life in high places. Gordon, M. M. 1129.23
Child's, The, book for Lent 2109.29
Child's, A, book of religion. Frothingham, O. B. 2109.36
Child's, The, catechism of common things. Champlin, J. D., *jr.* 1146.3
Child's, The, commentator on the Bible. Cobbin, I. 1113.3
Child's question book of useful knowledge. Bond, — 1142.10
Childhood, The, of the world. Clodd, E. ... 143.2
Children. Abbott, J. Gentle measures in the management and training of the young. 154.34
Chavasse, P. H. Advice to a mother on the management of her children .. No. 1 in 1165.22
Counsel to a mother: a continuation of "Advice to a mother" ..... No. 2 in 1165.22
Fonssagrives, J. B. The mother's work with sick children 1165.23
Gardner, A. K. Our children: their physical and mental development 125.22
Trall, R. T. The mother's hygienic handbook 1156.4
Wood, E. P. Our children 1128.23
Children's, The, picture-book of the sagacity of animals 1178.25
Chimneys, Boiler and factory. Wilson, R. .. 190.56
China painting. MacLaughlin, M. L. 1204.14

See also in the Bates Hall Card catalogue under China and China painting, and Porcelain and Porcelain painting.

Choice receipts. Woodman, M. S. 1189.10
Christ. Beecher, H. W. Life of Jesus, the Christ 2103.4
Brooks, P. The influence of Jesus 1114.16
Bulfinch, S. G. Contemplations of the Saviour 119.15
An examination of Canon Liddon's Bampton lectures on the divinity of Christ 2086.3
Farrar, F. W. The life of Christ 2102.3
Geikie, C. The life and words of Christ ... 1101.7
Hughes, T. The manliness of Christ 2101.8
Ingraham, J. H. The Prince of the house of David 1105.24
Saphir, A. Christ and the Scriptures 2089.22
Stock, S. G. The child's life of our Lord .. 2103.15
Thomas à Kempis. The imitation of Christ. 1118.26
Thompson, J. P. Jesus of Nazareth: his life 2102.10
Thornton, J. The preciousness of Christ to all who believe 2089.21

See also the Bates Hall Card catalogue.

Christian belief and life. Peabody, A. P. .. 2106.29
Christian way, The. Gladden, W. 1118.25
Christianity. Chateaubriand, F. A. R., *vicomte* de. The genius of Christianity 2094.6
Gladden, W. The Christian way: whither it leads and how to go 1118.25
Lee, S. The Bible regained, and the God of the Bible ours; or, the system of religious truth in outline 2087.8

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Christianity, *continued.*
Pressensé, E. de. The early years of Christianity 115.17
Withrow, W. H. The catacombs of Rome, and their testimony relative to Christianity 2087.9
See also Christ, Ecclesiastical history, Religion, Theology.

Church, A. H. The manufacture of acids, alkalies and alkaline salts, and soap. (*In* Bevan's British manufacturing industries) 1192.1.4
Plain words about water 1142.11
Church, Ella R. Artistic embroidery 183.7
How to furnish a home 1201.8
Circle, The, of the sciences. Wylde, J., *editor.* 2 v. 142.1
Civil allegiance. Gladstone, W. E. Rome and the newest fashions in religion 2109.34
Civil engineering. *See* Engineering.
Clan, The, of the cats. True stories about the feline animals 1174.8
Clapp, H. C. Is consumption contagious? and can it be transmitted by means of food? 1173.11
Clark, D. K. An elementary treatise on steam and the steam-engine 1197.9
Railways and tramways. (*In* Bevan's British manufacturing industries) 1192.1.10
Clark, R. W. The work of God in Great Britain, under Moody and Sankey, 1873 to 1875. With biographical sketches 2107.32
Clark, T. M. The dew of youth, and other lectures to young men and women on early discipline and culture 1118.17
Clarke, B. Life's emblems 1118.12
Clarke, E. H. The building of a brain 1159.30
Sex in education; or, a fair chance for the girls 1159.25
Howe, J. W., *editor.* Sex *and* education. A reply fo Clarke's "Sex in education" 1159.29
Visions: a study of false sights. (Pseudopia.) With an introduction and memorial sketch by O. W. Holmes 1117.27
Clarke, James Freeman. Self-culture 130.4
Clarke, Louisa L. The common seaweeds of the British coast and Channel islands, with some insight into the microscopic beauties of their structure and fructification 169.46
Clement, Clara E. Handbook of legendary and mythological art 1087.29
Climbing plants, The movements and habits of. Darwin, C. 1178.21
Clocks, Watches and. Britten, F. 1192.1.11
In the Bates Hall are the following works on clocks and timekeepers: — Berthoud (in French), 8012.53 and 8012.54 (marine); — Booth, 4018.50; — Georgi (in German), 4015.66; — Grossmann, 8027.3; *4018.55 (in German); — Heidner (in German), 4015.65; — The horological journal, *8024.50; — Houdin (in French), 8018.31; — Immisch (balance spring), 4017.70; — Jurgensen, 4033.10; — Saunier, *4012.75; — Steele (watches), *6237.25; — Wood, 4018.25.
Clodd, E. The childhood of the world: a simple account of man in early times 143.2
Coal. Galletly, A. 1192.1.2
See also Collieries.
Consult the Bates Hall Card catalogue under Coal, Fuel, Geology; also under the names of countries, division 86 (Mines and mining).
Coats of arms. Prang, L., and co. Standard alphabets. The State arms of the Union. 1204.10
Cobb, B. F. The manufacture of silk. (*In* Bevan's British manufacturing industries). 1192.1.6
Cobbe, Frances P. The duties of women. Lectures 120.5

Shelf. No.

Cobbin, I. The child's commentator on the Bible 1113.3
Cobden club, *London.* Free trade and the European treaties of commerce; being report of proceedings at the dinner, July 17, 1875, etc. 1139.11
Report of the proceedings at the dinner, July 11, 1874 ..... 1135.10
Coghlan, W. E. Am I too late? A series of devotional instructions 1118.27
Coins.
The Bulletin, No. 47, October, 1878, page 429, contains a list of the books in the Public Library on coins and medals.
Colange, L. de. The preservation of beauty. A treatise on the face and skin [etc.] 1196.12
Collieries, Working of. Smyth, W. W. 1192.1.2
Collins, J. H. The first book of mineralogy. 1167.9
Collins, James. Gutta-percha and India-rubber; Hides and leather. (*In* Bevan's British manufacturing industries) 1192.1.9
Collins, M. The secret of long life 1156.22
Colorado. Dartt, M. On the plains, and among the peaks; or, how Mrs. Maxwell made her natural history collection 1154.11
Colors. Slater, J. W. The manual of colours and dye wares: their properties, applications, valuation [etc.] 1141.13
See also the Bates Hall Card catalogue.
Comer, G. N. Book-keeping rationalized. 47th ed. 1135.7
Penmanship made easy. 7th ed. 1134.3
Comforted. By the author of "Talks with a child on the beatitudes" 1119.27
Coming catastrophe, The, being a prediction by C. A. Grimmer [and others] 1118.29
Commercial products, The, of the sea. Simmonds, P. L. 1163.9
Common mind troubles. Granville, J. M. 1174.29
Common sense in business. Freedley, E. T. 1134.7
Comparative anatomy, Outlines of. Ward, M. A. 1167.18
Comparative physiology. Agassiz, L., and Gould, A. A. 1149.16
Complete American trapper, The. Gibson, W. H. 1175.30
Complete home, The. Wright, J. McN. 181.4
Complete practical machinist, The. Rose, J. 1195.19
Conchology.
Consult the Card catalogue in the Bates Hall under this head and also under countries, sub-division "Malacology."
Concrete.
The following are in the Bates Hall: — "Concrete: its use in building," by Potter, 4018.77; — "Practical treatise," by Reid, 3973.62; — "Rudimentary treatise," by Dobson (ed. of 1867), 8019.18.
Confectionery. Peck, N. F. How to make candy 1184.6
In the Bates Hall: — Jeanes, 4008.61; — Weatherley, 4008.13.
Conjuring, The secrets of. Houdin, J. E. R. 1181.1
Conrad, T. K. Thoughts on prayer 2109.28
Consolation in affliction. Comforted 1119.27
Hinton, J. The mystery of pain: a book for the sorrowful 119.16
Consumption. Clapp, H. C. Is consumption contagious? and can it be transmitted by means of food? 1173.11
Dillenbach, H. P. Consumption [etc.] treated by medicated inhalations 1173.6
Mays, T. J. Consumption and how to prevent it 1173.9
Contemplations of the Saviour. Bulfinch, S. G. 119.15

Shelf. No.

Conundrums. Hood, T., *jr.*, and Broderip, F. F. Excursions into puzzledom. A book of conundrums, etc. 1184.9
Howard, C. J. Book of conundrums 180.125
Conversation. Hand-book for home improvement, comprising How to talk [etc.]..... 1125.1
How to shine in society; or, the science of conversation 1129.28
Converse, F. B. The banjo, and how to play it 1209.25
Cook, J. Magnetism and electricity 1159.46
Sound and the physical basis of music 1207.22
Cooke, J. P., *jr.* The new chemistry 1156.15
Principles of chemical philosophy 1147.10
Cooke, M. C. A fern book for everybody. British ferns 1158.26
One thousand objects for the microscope ... 1148.16
The woodlands 1164.6
Cookery. Barker, M. A., *lady.* First lessons in the principles of cooking 1189.9
Buckmaster, S. Cookery 1189.11
Buckton, C. M. Food and home cookery .. 1180.5
Cooking receipts from Harper's bazar 180.121
Corson, J. The cooking manual of practical directions for economical every-day cookery 1184.4
Cooking school text book 1181.6
The dessert book 186.57
Ewing, E. P. Cooking and castle-building. 183.12
The home cook book. Compiled from recipes contributed by ladies of Chicago and other cities and towns 1184.3
The home cook book. Compiled from recipes contributed by ladies of Toronto and other cities and towns 1183.4
Howard, *Mrs.* B. C. Fifty years in a Maryland kitchen 1185.4
Jones, L. Puddings and sweets 1184.5
Kirkland, E. S. Six little cooks; or, Aunt Jane's cooking class 1188.4
Moore, B. Cookery for the times 1182.4
Parloa, M. The Appledore cook book 1189.7
First principles of household management and cookery 1183.6
New cook book 183.6
Paul, S. T. Cookery from experience 1189.15
Tegetmeier, W. B. The scholars' handbook of household management and cookery ... 1188.5
Terhune, M. V. (*Marion Harland.*) Breakfast, luncheon and tea 1189.14
The dinner year-book 1180.2
Tyree, M. C. Housekeeping in old Virginia. 1183.2
Whitney, A. D. T. Just how: a key to the cook-books 1181.4
Wright, C. E. G. The school cookery book. 1181.9

See also Confectionery, Domestic economy, Receipts.

Recent books in English in the Bates Hall are by Bowman (new ed.), 6009.11; — Brillat-Savarin, 4008.70; — "Official handbook for the National training school for cookery," 4006.57; — Campbell, 6007.63; — Cassell, 4004.62; — Corson ("Fifteen cent dinners for families of six"), 6009.82; — Cowan, 6009.84; — Dubois, 4008.51; — "Economical cookery," 6008.78; — "German national cookery for English kitchens," 4009.61; — Henderson, 4008.72; — Hooper (for invalids and children), 4008.66; ("Every day meals"), 4007.76; ("Little dinners"), 4008.71; — Jewry, 6008.21; — Kettner, 4007.67; — Neely, 4006.33; — Parloa ("Camp cookery"), 4008.46; — Payne, 4006.56; — Short, 4006.61; — South Kensington "Lessons in cookery," 4006.76; — Walsh, 4007.64.

Artistic cookery. — Dubois, *6001.4; — Dumas, 4002.51; — Gouffé, 4001.51; 4001.52.

Cooking and castle-building. Ewing, E. P. 183.12
Cooking receipts from Harper's bazar 180.121
Co-operation. Holyoake, G. J. The history of co-operation in England. Vol. 1. 1135.11

There are several works in French and German on this subject in the Bates Hall.

Shelf. No.

Copper smelting. Phillips, J. A. 1192.1.1
Corals.

See chapters in Mrs. E. C. Agassiz's "First lesson in natural history," No. 4 in 1168.11; — Huxley's "Critiques and addresses," 1167.12; — and in Simmonds's "Commercial products of the sea," 1163.9. In the Bates Hall, Cooper, 3075.70; — Dana, *3872.51; — Darwin, 3868.53; — Nicholson, 3872.53.

Cordage, Fibres and. Simmonds, P. L. 1192.1.9
Corfield, W. H. Health 173.14
Cornelius, Mary H. The young housekeeper's friend. 1871 ..... 186.74
Corson, J. The cooking manual of practical directions for economical every-day cookery 1184.4
Cooking school text book 1181.6
Cosmology. Ramsay, G. M. 167.10
Cotton. Watts, I. 1192.1.6
Coultas, H. Animals and their young 1172.3
Our zoological friends 1171.2
Country walks of a naturalist. Houghton, W. 1164.14
Coupland, S. Personal appearances in health and disease 1174.19; 1174.20
Courtney, J. The boilermaker's assistant .. 190.6
Courtship and marriage. Alcott, W. A. ... 127.5
Cox, E. W. Spiritualism answered by science. 125.11
Cox, G. W. Tales of ancient Greece 2087.11
Crabtre, A. D. The funny side of physic: or, the mysteries of medicine 1151.1
Craik, Dinah, *formerly Miss Muloch.* Sermons out of church 1118.10
Crawley, Captain, *pseud.* *See* Pardon, G. F.
Crayfish, The. Huxley, T. H. 1147.21
Creation. Gaussen, L. The world's birthday 2107.30
James, H. Christianity the logic of creation 1088.7
Cremer, W. H., *jr.* Hanky panky. A book of conjuring tricks 185.33
Cribbage and dominoes. Hardy, F. 180.108
Cricket. Pycroft, J. The cricket-field 1186.5
Wood, F. Cricket 180.116
Critiques and addresses. Huxley, T. H. 1167.12
Crochet. Goubaud, *Mme.* A. Crochet instructions 187.36
The lady's book of knitting and crochet 1188.13
The lady's crochet-book 1188.12

In the Bates Hall: — Riego de la Branchardière, 6009a.14; — Stephens, 6009a.48.

Croly, Jennie C. For better or worse. A book for some men and all women 1128.13
Croquet. Wood, J. G. 180.105

See articles on croquet in The popular recreator, 181.3.

Cross and self-fertilisation, The effects of, in the vegetable kingdom. Darwin, C. 1166.3
Crystal, The: containing songs, quartettes [etc.]. Pease, F. H. 1207.17
Cumming, J. The seventh vial; or, the time of trouble begun 1117.13
Cupples, A. J. A knitting-book of counterpanes [etc.] 189.47
Curiosities of animal and vegetable life. Timbs, J. 1164.22
Curious adventures, The, of a field cricket. Candèze, E. 1154.4
Curious things of the outside world. Jennings, H. 126.34
Curtis, E. A. Needlework 1188.9
Cushing, L. S. Manual of parliamentary practice. Rules of proceeding and debate in deliberative assemblies. 1845 ..... 1138.11
Same. 1875 ..... 1139.10
Cutlery. Callis, F. 1192.1.11
Cyclical deluges. Walker, W. B. 147.31

Shelf. No.

Cyclopædias. Champlin, J. D., *jr.* The young folks' cyclopædia of common things. R.R., A.15
Champlin, J. D., *jr.* The young folks' cyclopædia of persons and places..... 190.5
Dick, W. B. Encyclopedia of practical receipts and processes .....R.R., D.3

Daily thoughts. Talmage, T. DeW.....1128.20
Dalton, J. C. A treatise on human physiology. 4th ed..... 161.3
Damon, W. E. Ocean wonders: a companion for the seaside 1147.15
Dana, J. D. The geological story briefly told. An introduction to geology.....1147.16
Manual of geology..... 141.6
Dancing. Beadle, E. F. Ball-room companion and guide to dancing ....No. 1 in 1197.13
The German. How to give it. How to lead it. How to dance it..... 183.13
Daniel Quorm, and his religious notions. Pearse, M. G. 2103.14
Daniell, W. H. The voice and how to use it. 1206.7
Daniels, W. H. D. L. Moody and his work..2102.13

Contents.—Part **1.** D. L. Moody and his work. **2.** Moody and Sankey in Great Britain and Ireland. **3.** Moody and Sankey's return to America.

Daniels, W. H., *editor.* The temperance reform and its great reformers.....1124.10
Dartt, Mary. On the plains, and among the peaks; or, how Mrs. Maxwell made her natural history collection.....1154.11
Darwin, C. The effects of cross and self-fertilisation in the vegetable kingdom.... 1166.3
Insectivorous plants.....1175.18
The movements and habits of climbing plants.....1178.21
The power of movement in plants..... 1166.4
What Mr. Darwin saw in his voyage round the world in the ship "Beagle"..... 1142.3
Darwinism. Gray, A. Darwiniana: essays and reviews pertaining to Darwinism 1177.31
Schmidt, O. The doctrine of descent and Darwinism 1147.5

For books by Darwin, and also those about his scientific views, consult the Card catalogue under the heads Darwin and Evolution in the Bates Hall; also a note on p. 55 of the Roxbury catalogue.

Davenport, S. Engraving. (*In* Bevan's British manufacturing industries).....1192.1.8
Davids, T. W. R. Buddhism: life and teachings of Gautama, the Buddha.....2101.10
Davidson, E. A. The boy joiner and model maker 1203.13
Drawing for bricklayers 1193.11
Drawing for carpenters and joiners 1193.15
Drawing for metal plate workers 1204.20
A practical manual of house-painting, graining, marbling and sign-writing 1193.13
Pretty arts for the employment of leisure hours 1204.13
Davies, C. New elementary algebra.....1147.8
Davies, G. C. The Swan and her crew, or the adventures of three young naturalists and sportsmen on the broads and rivers of Norfolk 1175.32
Davis, A. J. Views of our heavenly home ..1117.26
Dawson, G. Pleasures of angling with rod and reel for trout and salmon 1178.24
Dawson, J. W. Nature and the Bible.....1128.16
The story of the earth and man..... 141.4
Death, The to-morrow of. Figuier, L..... 119.20
Debating. Rowton, F. The debater.....1397.10
Rowton, F. How to conduct a debate..... 1135.6

See also Parliamentary practice.

There are in the Bates Hall:—"The American debater," 5568.56;—"The young debater," 3638.52.

Shelf. No.

Decoration. Gardner, E. C. Home interiors..... 1206.3
Garrett, R. and A. Suggestions for house decoration in painting, woodwork and furniture.....1207.18
Holly, H. H. Modern dwellings in town and country; with a treatise on furniture and decoration..... 1201.4
Leland, C. G. The minor arts. Porcelain painting, wood-carving, etc.....1204.18
The painter's manual.....1209.28

Lists of books on decorative art are given in Bulletins No. 34, July, 1875, p. 389, and No. 45, April, 1878, p. 348. Consult the cards in the Bates Hall catalogue under Ornament. The following have been published recently:—Davillier: "Les arts décoratifs en Espagne au moyen âge et à la renaissance," 4074.82;—Day: "Instances of accessory art," *8070a.55;—Dresser: "Studies in design," **C.A.6.4;—Ducompex, 4065.50;—Edis: "Decoration and furniture of town houses," 406.6.56;—Gonse: "Les beaux-arts et les arts décoratifs," 4023.53;—Hulme: "Suggestions in floral design," **C.A.8.1;—William Morris: "The decorative arts," 4069.34;—Sparkes: "Hints to china and tile decorators," 4029.83;—Spofford: "Art decoration applied to furniture," 4094.52. The Bates Hall Card catalogue contains a list of books with designs suitable for decoration.

Defenders, The, of the faith. Watson, F.... 2101.4
De Koninch, L. L., and **Dietz,** E. Practical manual of chemical assaying.....1142.13
Delamotte, F. The embroiderer's book of design 1182.10
A primer of the art of illumination 1202.11
Delamotte, P. H. Drawing copies..... 1202.8
A progressive drawing book.....1207.10
Deluge. *See* Cyclical deluges.
Dempsey, G. D. A rudimentary treatise on locomotive engines..... 190.7
Derby, G. An inquiry into the influence of anthracite fires upon health 197.38
Derington, T. J. How to row..... 1180.6
Design, Elements of. Rimmer, W.....1201.2; 1201.6

In the Bates Hall are:—Armengaud, *4081.8;—Barry: "Primer," 4069.43;—Blanc: "Grammaire des arts du dessin," *8063.12;—Dresser: "Principles of decorative design," 4093.51;—Dresser: "Studies," **C.A.6.4;—Haydon: "Lectures," *4062.9;—Hulme: "Art-studies from nature," 4075.52;—Metz: "Principj del disegno" (pub. 1842), **80.M.3;—Mitford: "Principles in architecture," 4095.1;—Richardson: "Studies," *4050.1;—Rimmer: "Elements," 4067.44;—South Kensington museum Manual, 4079.18. See also the cards under Drawing, Fine arts, Ornament, Painting, Sculpture.

Dessert book, The 186.57
Destruction and reconstruction. Taylor, R. 211.5
Devil's chain, The. Jenkins, E.....1128.22; 1128.24
Dew of youth, The. Clark, T. M. 1118.17
De Younge, Annemina. Joy; or, new dramatical charades for home performance 1367.22
Diaz, Abby M. A domestic problem: work and culture in the household 1128.18
Domestic problems: work and culture in the household, and The schoolmaster's trunk. 130.7
Dick, W. B. The American Hoyle...184.37; 1181.2
Encyclopedia of practical receipts and processes .....R.R., D.3
Dick, W. B., **Frost,** Sarah A., and **Taylor,** W. What shall we do to-night? or social amusements for evening parties. By Leger D. Mayne [*pseud.*] 186.17
Dickinson, Anna E. A paying investment..1139.14
Digestion, Our. Lewis, D. 1157.30
Dillenback, H. P. Consumption, bronchitis, asthma, catarrh and clergymen's sore throat, treated by medicated inhalations.. 1173.6
Dinner year-book, The. Terhune, M. V.... 1180.2
Discoveries and inventions of the nineteenth century. Routledge, G. 1147.7
Diseases of modern life. Richardson, B. W. 1156.14
Disinfectants, Water, air and. Hartley, W. N. 1158.34

Consult the cards in the Bates Hall catalogue.

Shelf. No.

Distilling, Brewing and. Pooley, T. 1192.1.12
Dixon, C. Rural bird life; essays on ornithology 1171.10
Dixon, H. H. Silk and scarlet. By The Druid [*pseud.*] 1183.3
Dobson, E. Rudiments of the art of building. 8th ed. 206.16
Dodge, Mary A. (*Gail Hamilton.*) Sermons to the clergy 1139.13
Dog life. Narratives exhibiting instinct, intelligence, fidelity, sympathy, attachment, and sorrow 1178.14
Dogs. Hill, J. W. The management and diseases of the dog 1174.12
Pardon, G. F. Dogs: their sagacity, instinct, and uses [etc.] 1178.27
Stables, W. G. Ladies' dogs, as companions: also a guide to their management 1178.33
Webb, H., and others. Dogs: their points, whims, instincts, and peculiarities 1178.18

See also in the Bates Hall: — Blanchère-Fercoq: "Les chiens de chasse," 4004.51; — Burges: "The American kennel and sporting field," 4007.10; — Dalziel: "British dogs," 6007.57; — Herbert, 4006.73; — Hutchinson: "Dog breaking," 6004.23; — Morris: "Dogs and their doings," 6004.19; — Pope: "Celebrated dogs of America" (Plates), *4000.14; — Stables, 4006.34; 4008.73; — Walsh, 4007.50; 6008.72; — Wildfowler, 4006.14; — Youatt, 6004.20; also the names of the several varieties of dogs.

Domestic animals. Hodges, J. F. Animals of the farm 1178.26

See also Cats, Cattle, Dogs, Horse, Poultry.

Domestic arts. Smith, C. L. Home arts for old and young 1187.1
Domestic economy. Barker, M. A., *lady*. Houses and housekeeping 1189.21
Beecher, C. E. Housekeeper and healthkeeper 1185.3
Beecher, C. E., and Stowe, H. B. The new housekeeper's manual 1189.5
Beecher, E. W. All around the house 1123.3
Motherly talks with young housekeepers .. 1185.2
Beeton, I. M. Beeton's every-day cookery and housekeeping book 186.55
Cornelius, M. H. The young housekeeper's friend 186.74
Diaz, A. M. A domestic problem: work and culture in the household 1128.18
Domestic problems: work and culture in the household 130.7
Edgeworth, M. L. The Southern household companion 1123.4
Freedley, E. T. Home comforts 1181.7
Holbrook, M. L. Eating for strength 1159.41
Mackarness, M. A. The young lady's book 1187.10
Oakey, A. E. From attic to cellar. A book for young housekeepers 1183.5
Parloa, M. First principles of household management and cookery 1183.6
Philp, R. K. The lady's every-day book .. 1182.5
Stockton, F. R. and M. The home 188.21
Take my advice: a book for every home ... 186.56
Tegetmeier, W. B. The scholars' handbook of household management and cookery ... 1188.5
Terhune, M. V. Breakfast, luncheon and tea 1189.14
Timbs, J. One thousand domestic hints in the choice of provisions, cookery [etc.] 188.18
Tomes, R. The bazar book of the household 1159.34
Tyree, M. C. Housekeeping in old Virginia. 1183.2
The useful companion and artificer's assistant 1184.1

Shelf. No.

Domestic economy, *continued.*
Wright, J. McN. The complete home: an encyclopædia of domestic life and affairs. 181.4

See also Cookery, Receipts.

In the Bates Hall are books on this subject by Bartley, 6009.79; — Browne, 4006.55; — Caddy, 4007.68; — Campbell, 6007.63; — Dick, *4005.53; — Faunthorpe, 6007.59; — Gordon, 4906.15; — Henderson, 4008.72; — Hooper, 4008.71; — Philp, 4006.69; — Putnam, 4009.54; — Southgate, 4009.75; — Spofford ("The servant girl question"), 6009.92; — Stevens, 6009.77; — Walsh, 4007.64; — Walters, 3588.64; — Warren, 6009.57; — Webster, 2557.70; and other works longer published.

Domestic problem, A. Diaz, A. M. 1128.18
Domestic problems. Diaz, A. M. 130.7
Dominies, A book about. Moncrieff, R. H. ..1126.32
Dominoes, Cribbage and. Hardy, F. 180.108
Domville, E. J. A manual for hospital nurses and others engaged in attending on the sick. 1157.34
Donnelly, N. Self-defence; or, the art of boxing 1180.8
Doty, D. Smith's interest tables. Added business tables 132.2
Dowsing, W. The timber merchant's and builder's companion 190.43
Drafting instruments, Manual of. Warren, S. E. 1203.12
Drainage. Eassie, W. Healthy houses. A handbook of drainage 207.33
Jenkin, F. Healthy houses 1174.26
Reynolds, O. Sewer gas, and how to keep it out of houses. A handbook on house drainage 1173.25

The following on house drainage are in the Bates Hall: — Adams, 4013.72; — Bayles, 4013.59; — Bazalgette (London system), 8015.5; — Buchan ("Plumbing," etc.), 4018.72; — French, 5762.59; — Latham, 4016.64; — Philbrick ("American sanitary engineering"), 4016.82; — Slagg, 3769.85; — Waring ("Sanitary drainage"), 3769.84. See also the cards under Sewerage and Sewers.

Draper, J. W. History of the conflict between religion and science. 5th ed. 2106.30
Same. 7th ed. 1118.4
Draughts. Hardy, F. Draughts and backgammon 180.113
Spayth, H. The American draught player. 1186.7
Drawing. Delamotte, P. H. Drawing copies. 1202.8
Delamotte, P. H. A progressive drawing book 1207.10
Knowlton, H. M. Hints for pupils in drawing and painting 1203.16
Kruesi, H. Drawing. Analytic series. No. 1-6 .....1209.31
Drawing. Manual for teachers. Inventive course — analytic series 1204.5
Same. Inventive course — synthetic series 1204.6
Drawing. Perspective series. No. 1-3 ..1209.32
Drawing. Synthetic series. No. 1-4 ....1209.30
Hand-book of perspective drawing. Drawing series. Part 3 ..... 1204.7
Same. Part 4 ..... 1204.8
Pyne, G. Practical rules on drawing 1202.13
Tyrwhitt, R. St. J. Our sketching club. Letters and studies on landscape art 206.13
Viollet-le-Duc, E. E. Learning to draw ... 190.4
Walker, W. Handbook of drawing 1204.9
Warren, S. E. Manual of drafting instruments and operations 1203.12

See also Art, Free-hand drawing, Mechanical drawing.

Among the works on drawing in the Bates Hall are the following: — Barnard ("Drawing from nature"), 8063.15; — Bartholomew, 4068.31; — Burn, *8039.7; — Cassell's Popular drawing copies, 4068.50; — Cavé, 8069a.1; — Chapman, *8080a.7; — Dyce, *6070a.53; — Foster, *8069a.22; — Knowlton, 4069.62; — Harding, *4070.59; 4071.54; — Rowbotham, 8068.12; 4069.42; — Walter Smith ("American text books of art education"), 4068.32-34; 4069.56; — W. Smith ("Drawing book of standard reproductions"), *4070.51; *C.270.1; — Walker, 8068.44; — White, *4073.56; — Worthen ("Appletons' Cyclopædia of drawing"), *8082.6; 8063.16.

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Drawing, *continued.*

See also the Bates Hall Card catalogue, under the headings Botanical drawing, Design, Engineering drawing, Figure drawing, Free-hand drawing, Geometrical drawing, Industrial drawing, Landscape drawing, Linear drawing, Mechanical drawing, Ornament, Perspective, Projection, Sketching, Water colors, etc.

Drawing-room magic.....1397.15
Drayson, A. W. The art of practical whist. 1181.10
Dress. Gale, E. C. Hints on dress..... 197.40
Phelps, E. S. What to wear?..... 1128.8
Dress and health: or, how to be strong.....1174.25
Dress-reform. Woolson, A. G., *editor*.....1159.32
Dresser, C. Carpets. (*In* Bevan's British manufacturing industries).....1192.1.5
Dressler, W., *compiler*. The singing festival, a collection of popular glees, trios, quartets, and choruses, for male voices.. 1206.2
Drew, B. Pens and types: or, hints and helps for those who write, print, or read.1137.22
Druid, The, *pseud.* *See* Dixon, H. H.
Dry goods, Scissors and yardstick; or, all about. Brown, C. M., and Gates, C. L.1198.25
Du Breuil, A. The scientific and profitable culture of fruit trees..... 1166.2
Dudgeon, R. E. The human eye; its optical construction popularly explained.....1173.15
Duffey, *Mrs.* E. B. What women should know. A woman's book about women...1128.19
Dulles, C. W. What to do first, in accidents or poisoning.....1174.37
Du Moncel, T. A. L., *comte*. The telephone, the microphone, and the phonograph.....1197.14
Duncan, P. M. The sea-shore..... 1164.7
Dunning, J. Tobacco. (*In* Bevan's British manufacturing industries).....1192.1.9
Dunster, H. P. The young collector's handy-book of botany..... 168.3
Durant, G. Hygiene of the voice..... 1171.6
Duties, The, of women. Cobbe, F. P. 120.5
Duty. Smiles, S. 130.5
Dwellers, The, in our gardens: their lives and works. Wood, S. 1164.23
Dwyer, C. P. The immigrant builder; or, practical hints to handy-men..... 196.33
Dyeing and dye-stuffs. Sims, T. Dyeing.1192.1.5
Slater, J. W. The manual of colours and dye wares: their properties, applications, valuation [etc.].....1141.13
Dyson, C. E. Bird-keeping. The management of cage birds..... 177.47
Same. Revised and enlarged ed. 1154.6

Eagle's nest, The. Ten lectures on the relation of natural science to art. Ruskin, J. 1207.4
Ear. Burnett, C. H. Hearing, and how to keep it.....1174.23

See also the Bates Hall Card catalogue, under the headings Acoustics, Deafness.

Earnest words on true success in life. Palmer, R. 1115.26
Earth. Dawson, J. W. The story of the earth and man..... 141.4
Jones, W. The treasures of the earth..... 167.3

See also Geography, Geology.

Earthwork, Tables for estimating. Law, H. 190.21
Eassie, W. Healthy houses. A handbook of drainage, ventilation, warming [etc.].. 207.33
Eastlake, *Sir* C. L. Hints on household taste in furniture, upholstery, and other details. Edited, with notes, by C. C. Perkins..... 208.12
Easy lessons in science. *Namely:* —
Awdry, *Mrs.* W. Easy lessons in light.... 1141.9
Martineau, C. A. Easy lessons in heat.... 1141.8

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Eating. Beard, G. M. Eating and drinking. 157.46
Holbrook, M. L. Eating for strength.....1159.41

See also Food.

Eaton, H. N. An hour with the American Hebrew 1114.15
Ecclesiastical history. Allen, J. H. Fragments of Christian history, to the foundation of the holy Roman empire..... 1113.6
Neale, J. M. Victories of the saints. Stories from church history.....1119.22
Watson, F. The defenders of the faith; or, the Christian apologists of the second and third centuries..... 2101.4

See also the Bates Hall Card catalogue.

"**Eclipse**" temperance elocutionist, The.....1128.21
Economics for beginners. Macleod, H. D... 1134.6
Edgeworth, Mary L. The Southern household companion..... 1123.4
Education. Abbott, J. Gentle measures in the management and training of the young. 154.34
Brackett, A. C., *editor*. The education of American girls: a series of essays.....1155.13
Clarke, E. H. The building of a brain 1159.30
Eggleston, G. C. How to educate yourself: with or without masters 138.20
Gill, J. The art of teaching young minds to observe and think..... 138.27
Hand-book for home improvement..... 1125.1
Hill, T. The true order of studies..... 120.2
Howe, J. W. Sex *and* education.....1159 29
Kingsley, C. Health and education.....1826.11
Manual for teachers. No. 1–5. 5 v..... 129.29
Orcutt, H. The parents' manual; or, home and school training..... 1134.4
Page, D. P. Theory and practice of teaching 138.28
Prince, J. J. School management and method 1137.12
Sizer, N. What to do, and why, and how to educate each man for his proper work.... 137.4

See also Kindergarten; also the Bates Hall Card catalogue.

Eggleston, G. C. How to educate yourself: with or without masters 138.20
How to make a living. Suggestions upon the art of making, saving, and using money 128.11
Elderkin, J. The turf and trotting horse of America.....173.2; 1173.12
Electric light. Prescott, G. B. The speaking telephone, electric light, etc. 141.7
Urquhart, J. W. Electric light: its production and use..... 1141.7

The following are in the Bates Hall: — Du Moncel (in French), 5969a.20; — Fontaine, 3964 53; 3966.64; — Higgs, 3966.68; — Kempe, 3968.73; — Sawyer: "Electric lighting by incandescence," 3663.63.

Electricity. Baille, J. Wonders of electricity 145.15
Cook, J. Magnetism and electricity 1159.46
MacGregor, W. Questions on electricity .. 1149.8
Prescott, G. B. Electricity and the electric telegraph 1145.5
Tyndall, J. Lessons in electricity, at the Royal institution, 1875–6.....1149.22

See also Electrostatics, Magnetism, Telegraph.

The following writers on electricity are among those found in the Bates Hall Card catalogue: — Baille, 5968.24; — Bird, 5809a.14; — Carl (in German), 3917.50.6; — Clark, 5965.1; — Clark and Sabine, 5969.13; — Cumming, 3969.64; — Du Moncel (in French), 3962.56; — Faraday, 3963.57; — Benjamin Franklin (several editions); — Gordon, 3963.59; — Guthrie, 3968.70; — Harris, 5968.50; — Jenkin, 5918.54; — Kulm (in German), *5943.1.20; — Mascart (in French), 3964.56; — Maxwell, 3962.52; — Merrell, 5955.57; — Niaudet, 3966.73; 3966.60; — Pynchon, 5974.22; — Sprague, 3968.57; — Tyndall: "Electrical phenomena and theories," 5969.7. See also the headings Batteries, Galvanism, Lightning, Magnetism, Medical electricity, Telegraph, Thunder.

Shelf. No.

Electro-metallurgy. Gore, G. The art of electro-metallurgy 1167.23
Watt, A. Electro-metallurgy practically treated 190.55

The following are in the Bates Hall: — Byrne, 8014.52; — Napier, 4018.9; — Valicourt, 8029.74.

Electro-plating. Urquhart, J. W. 190.54

In the Bates Hall: — Cauderay, *5969.17; — Roseleur (in French), 8027.5; — Valicourt, 8029.74.

Electro-typing. Urquhart, J. W. 190.54

See articles on electrotyping in The popular recreator, 181.3. In the Bates Hall: — Walker, 8019a.8; 8019a.19; 5800a.52; — Wilson, 4017.75.

Electroplate. Aitken, W. C. 1192.1.3

Electrostatics, Gordon, J. E. H. Four lectures on static electric induction 1141.12

Elephant, The life of an 1178.13

Eliot, C. W., **Storer,** F. H., and **Nichols,** W. R. An elementary manual of chemistry 1156.11

Elliott, A. Out-of-doors: a handbook of games for the playground 186.16
Within-doors: a book of games and pastimes for the drawing-room 186.15

Elocution. Hullah, J. Cultivation of the speaking voice 1155.16

In the Bates Hall: — Atwell, 5599a.69; — Bailey (Instructor in Yale college), 7057.76; 7068.20; 7058.73; — Bautain, 5608.63; — Bell: "Elocutionary manual," 3597.65; "Faults of speech," 5599a.70; "Standard elocutionist," 5597.11; — Comstock, 7068.3; — Fobes, 3599.84; — Fowler, 5599a.62; — Graham, 3606.71; — Hillard, 7058.39; 7068.19; — Kidd, 7067.5; — Legouvé, 3598.86; — Murdock, 7059.46; — Plumptre, 5594.38; 3602.60; 3594.64; — Raymond, 3597.71; — Russell: "American elocutionist," 7069.3: "Orthophony" (ed. of 1876), 5598.21; — Sandlands, 3597.75; — Seiler: "The voice in speaking," 3606.56; — Vandenhoff: "The art of reading aloud," 3599.85; — Wiley, 3606.58; — Zachos, 7598.4; etc. *See also* English language, Oratory, Rhetoric, Voice.

Elphinstone, H. W. Patterns for turning ... 1202.9

Embroidery. Church, E. R. Artistic embroidery 183.7
Delamotte, F. The embroiderer's book of design 1182.10
Guide to needlework [etc.] 1189.23
Hale, L. P., *editor.* Art-needlework for decorative embroidery 1201.5
Designs in outline for art-needlework 1180.9
Higgin, L. Handbook of embroidery 1180.12
Masé, E. Art-needlework for decorative embroidery 1180.13; 1201.5

See also Crochet, Fancy work, Needlework.

See also in the Bates Hall: — Barber, *,*4000.7; — Cocheris, 4006.50; — Frost, 6004.27; — Goubaud, 6009a.30; — Hartshorne, *6003.21; — Jacquemart (in his "History of furniture"), 4093.62; — Lessing, *4004.69; — Lockwood, 4000.5; — Pott, 2119.9.

Emergencies. How to avoid them and how to meet them. Wilder, B. G. 1174.22

Emerson, G. B. [Tracts for the people] 186.76

Contents. — The power of soap and water; Health of mothers; Is it too late? Sowing the seed; Washing the children; Croaking Kate and chirping Jane; The value of good food; The mischief of bad air: or what "bad air" really is; Whose fault is it? or how to make a happy home; The influence of wholesome drink.

Emerson, L. O. The golden wreath: a choice collection of favorite melodies 1208.47

Encyclopædias. *See* Cyclopædias.

Engineer's, The, guide to the royal and mercantile navies 1208.46

Engineering. Benjamin, P. Wrinkles and recipes, compiled from the Scientific American 1187.11
Hall, H. Civil engineering and surveying .. 190.42
Law, H., and Burnell, G. R. Civil and hydraulic engineering 1196.11
Smiles, S. Lives of the engineers. 5 v. 1537.1

See also Arches, Locomotive engine, Railroads, Steam and the steam-engine.

Shelf. No.

Engineering, *continued.*

The following, mostly in English, are selected from books on engineering in the Bates Hall collection: — Becker (10 vols., in German), *8013.53; Atlas, *8010.59; — Bruff, 8017.1; — Dempsey, *4100.6; — Dobson ("Pioneer engineering"), 4018.76; — Gonin (2 v., in French), *8010.21; — Haskoll, 3919.57; — Haswell ("Pocket-book"), 3939.53; 3938.67; — Haupt, 4016.57; — Head, 8013.14; — Lacroix (in French), *8010.57; — MacAlpine, 4015.82; — Mahan (ed. of 1873), 4015.60; — Molesworth (Formulæ, ed. of 1871), 5939a.5; — Moseley, 4015.50; 4095.7; — Nystrom, 3929.33; — Rankine, 4019.100; — Rankine and Bamber, 3948.50; — Scott, 4030.1; — Searles, 3948.72; — Shields, 4017.66; — Shunk, 4018.83; — Stevenson, 3942.9; 4015.5; — Stuart ("Lives and works of civil and military engineers of America"), 4442.12; — Trautwine, 8038.2; — Weisbach (2 v.), 8010a.16.1.; — Weissenborn, *4021.5; Atlas, *39.D.2; — Whewell, 3944.6.

Dictionaries. — Appleton (2 v.), *8030.5; — Spon (8 v.), *A.200.5; *8037.6; — Tomlinson (3 v.), Bates Hall Desk, G.8.

Periodicals. — Annales des ponts et chaussées, *3316.1; *3316.50; Annales du génie civil, *8021.51; — Annuaire du ministère des travaux publics, 5344.1; — Building news and engineering journal, *7360a.1; — Civil engineer and architect's journal, *8012.1; — Der Civilingenieur, *8022.4; — The engineer, *7961.2; — Engineering, *7971.2; — Engineering and mining journal, *7970.4; — Le génie industriel, *A.205.1; — London Institution of civil engineers, *4022.7; *4028.1; — Nouvelles annales de la construction, *6392.1; — La semaine, *6963.1; — Technologiste, *8022.51; — Van Nostrand's electric engineering magazine, *5945.50; — Zeitschrift des Vereines deutscher Ingenieure, *5250.50, etc.; see also in the Bates Hall Card catalogue under Arches, Architecture, Bridges, Canals, Drainage, Earthworks, Marine engineering Mining engineering, Public works, Railroads, Roads, Sanitary engineering, Surveying, and other headings in the table found at the beginning of the word Engineering.

Engineering drawing. Binns, W. An elementary treatise on orthographic projection 206.10

England. Hamerton, P. G. A painter's camp in England [in 1866] 1654.3
Hatton, J. L., *editor.* The songs of England. 202.24

Engraving. Davenport, S. Engraving 1192.1.8
Ruskin, J. Ariadne Florentina. Six lectures on wood and metal engraving 1203.3

For an account of works in this Library on engraving, see Bulletin No. 30, July, 1874, page 267.

Enigmas. Hood, T., *jr.*, and Broderip, F. F. Excursions into puzzledom. A book of enigmas, etc. 1184.9
Planche, F. D'A. Guess me: a curious collection of enigmas, etc. 185.34

Ennis, J. The origin of the stars, and the causes of their motions and their light. 4th ed. 1145.4

Entomology. *See* Insects.

Ernst, H. Accountant and bookkeeper's manual of commercial calculations 1132.3

Ethnology. Fontaine, E. How the world was peopled. Ethnological lectures 128.21
Wood, J. G. The natural history of man. 2 v. 171.9

See also Man, and the Bates Hall Card catalogue.

Etiquette. *See* Manners and minor morals.

Etiquette of the dinner-table: including carving 180.119

Euchre, Laws and practice of the game of. As adopted by the Washington, D.C., euchre club. 1877 ..... 1188.3

Evangeline. Opera bouffe. Rice, E. E. 201.29

Evans, M. Butter and cheese. (*In* Bevan's British manufacturing industries) 1192.1.12

Evans, T. H. Evans' Temperance manual .. 1128.27

Everett, J. D. Elementary text-book of physics 1142.18

Evers, H. Steam and the locomotive engine .. 1198.21
Steam and the steam engine 1198.20
Theory and practice of navigation 1169.67

Every boy his own manufacturer, containing instructions in carpentry, turning, boat building, and glass blowing, with full directions how to make engines, electric telegraphs, etc. 1193.3

Shelf. No.

Every inch a king. A story illustrating the reigns of David and Solomon. Gardner, C. E. 2103.17
Every man's own lawyer. A handy book of the principles of law and equity, comprising the rights and wrongs of individuals. By a barrister. 1876....1139.16
Every woman her own flower gardener. Johnson, L. 150.12
Evolution. Burr, E. F. Pater mundi; or, doctrine of evolution 2096.19.2
Gill, W. I. Evolution and progress.... 147.2
Mivart, St. G. Contemporary evolution....1177.32

See the Bates Hall Card catalogue under the heads Darwin and Evolution.

Ewing, Emma P. Cooking and castle-building 183.12
Examination, An, of Canon Liddon's Bampton lectures on the divinity of Christ. By a clergyman of the church of England.... 2086.3
Excellent woman, The, as described in the book of Proverbs 2102.11
Excursions into puzzledom. Hood, T., *jr.*, and Broderip, F. F.... 1184.9
Exercise and training. Ralfe. C. H. 1174.13
Expanse, The, of heaven. Proctor, R. A... 1144.8
Experimental science series for beginners. *Namely:* —
Mayer, A. M. Sound.... 1146.7
Mayer, A. M., and Barnard, C. Light 1146.8
Explosive compounds. Williams, W. M. ..1192.1.2
Eye. Carter, R. B. Eyesight: good and bad. 1174.34
Dudgeon, R. E. The human eye; its optical construction popularly explained....1173.15

Factories. *See* Wood-working factories.
Factory chimneys, Boiler and. Wilson, R... 190.56
Fairfield, F. G. Ten years with spiritual mediums 1127.7
Fairholt, F. W. Tobacco: its history and associations 946.6
Fairy-land, The, of science. Buckley, A. B. 1155.18; 1155.19
Familiar talks to boys. Hall, J. 1118.11
Family etiquette: a complete guide to conversation, parties, travel, and the toilette, with hints on domestic affairs 1137.10
Fancy work, Ladies'. Jones, *Mrs.* C. S., and Williams, H. T. 1187.13
Faraday, M. On the various forces of nature and their relations to each other.... 1145.2
Farm villages, Village improvements and. Waring, G. E., *jr.* 1149.25
Farm-yard club, The, of Jotham. Loring, G. B. 1161.4
Farming. *See* Agriculture.
Farrar, F. W. The life and works of St. Paul. 2100.2
The life of Christ.... 2102.3
Talks on temperance.... 120.7
Farrer, J. A. Primitive manners and customs.1147.18
Farriery. Fleming, G. Practical horse-shoeing 165.21

In the Bates Hall are treatises by Douglas, 4008.55; — Fleming, 6004.4; — Gamgee, 6003.9; — Hunter, 6008.18; — United States, *Dept. of war,* *4001.54; — also information under the headings Horse and Veterinary art.

Fat and blood: and how to make them. Mitchell, S. W. 1156.18
Faunce, D. W. A young man's difficulties with his Bible.... 1114.6
Feet and wings. Arthur, T. S. 1173.13
Felice, G. de. How and why? or, search the Scriptures....1119.24

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Felker, P. H. "What the grocers sell us." A manual for buyers....1171.20
Felkin, W. Hosiery and lace. (*In* Bevan's British manufacturing industries)....1192.1.5
Female beauty. Cazenave, A. 1196.7
Fencing. Griffiths, T. The modern fencer.. 209.42

See articles on fencing in The popular recreator, 183.1. In the Bates Hall: — Berriman, 7959.7; — Lafaugère, 6009a.56; — Maclaren, 4006.64; — Waite, 6007.61.

Fenwick, T., and **Baker,** T. Subterraneous surveying with and without the magnetic needle 1169.65
Fermentation, On. Schuetzenberger, M. P.1147.12
Ferns. Cooke, M. C. A fern book for everybody. British ferns....1158.26

See also Botany.

In the Bates Hall are the following: — Eaton (North America), *5841.12; — "Ferns of the British isles," 3846.58; — Heath: "Fern paradise" (4th ed.), 3847.53; "Fern world," 3846.55; "Trees and ferns," 3847.71; — Hibberd: "The fern garden," 5999.22; 3848.55; — Hooker: "Icones filicum," *3840.9; "Species filicum" (5 vols.), *3847 11; "Synopsis filicum," 5845.16; — Lowe (8 vols.), *5844 2; — Lyell, 3849.58; — Meehan (United States, 2 vols.), *3842.60; — Robinson, 3847.54; — Rothschild, *5844.12; — Smith: "Ferns, British and foreign," 3848.53; "Historia filicum," *3848.65; — Williams, 3849.54; — Williamson (United States), *3843.60; (Kentucky), 3847.62.

Fertilisation. Darwin, C. The effects of cross and self-fertilisation in the vegetable kingdom 1166.3
Fever. *See* Hay fever; and for works on fevers, see the Bates Hall Card catalogue.
Feydeau, E. The art of pleasing. (*In* Cazenave, A. Female beauty).... 1196.7
Fibres and cordage. Simmonds, P. L. 1192.1.9
Field, H. A home for the homeless; or, union with God.... 118.11
Field, cover, and trap shooting. Bogardus, A. H. 1175.12
Figuier, L. The human race.... 143.1
The to-morrow of death; or, the future life according to science.... 119.20

A French popular scientific writer, many of whose works in French and English are in the Bates Hall.

Finance, The A B C of. Newcomb, S. 1139.18

See also Banks and banking, Money.

Consult the Bates Hall Card catalogue, under Banks, Finance, Money, and the division "Finance," under the names of countries.

Findlater, A. Astronomy....1159.43
Fine arts. Cheney, E. D. Gleanings in the fields of art 206.28
Leland, C. G. The minor arts. Porcelain painting, wood-carving, stencilling, modelling, mosaic work, etc. 1204.18

See also Art, Arts, Music, Painting, Sculpture.

Firemen, The American. Champlin, H. L... 1207.9
Fireside science. Nichols, J. R. 895.24
Fireworks. *See* Pyrotechnics.
First help in accidents and in sickness.... 157.45
Fish, G. T. American manual of parliamentary law, or the common law of deliberative assemblies. 1880.... 1134.8
Fish and fishing. Buckland, F. Log-book of a fisherman and zoölogist....1175.17
Burgess, J. T. Angling. With a chapter on sea fishing.... 117.46
Dawson, G. Pleasures of angling with rod and reel for trout and salmon....1178.24
Hallock, C. The fishing tourist: angler's guide and reference book.... 1175.8
Prime, W. C. I go a-fishing.... 1185.8
Stevens, C. W. Fly-fishing in Maine lakes.1629.25
Warren, T. R. Shooting, boating, and fishing, for young sportsmen.... 178.6
The young angler....1397.15

See also Salmon fisheries, Sea fisheries.

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Fish and fishing, *continued.*

The following are selected from works on this subject in the Bates Hall: — Bailey, 4006.82; — Brown: "American angler's guide," 4007.61; — Chatto, 4006.59; — Sir H. Davy: "Salmonia," 6009.20; — Fennell: "Book of the roach," 6009.26; — Francis, 6009.30; — Holdsworth: "Deep-sea fishing," 3952.55; — Kilbourne and Goode (Plates, United States), **35.N.1; — Manchester anglers' association, 6008.81; — Manley, 4007.74; — Norris: "American angler's book," 4007.5; — Scott, 6008.9; — Senior, 4007.70; 6008.80; 6008.26; — Thomas: "The rod in India," 4008.7; — U. S. Com. of fish and fisheries, 4325.61; — Walton and Cotton (several editions); — Wilcocks: "The sea-fisherman," 3958.27.

Scientific treatises on fish will be found in the cards under Ichthyology, and under that division of countries.

Fish breeding.

A list of books on fish culture is given in Bulletin No. 23, October, 1872, page 89.

Fishing tourist, The. Hallock, C. 1175.8
Fiske, J. Myths and myth-makers 1087.30
Five senses, The, of man. Bernstein, J. ... 1129.18
Five thousand a year; and how I made it in five years' time, starting without capital. Mitchell, E. 1137.8
Flagg, W. The birds and seasons of New England 1175.16
The woods and by-ways of New England ... 165.33
Flammarion, C. Stories of infinity 1144.6

Contents. — Lumen; History of a comet; In infinity.

A French astronomer, some of whose works are profusely illustrated.

In the Bates Hall Card catalogue are his "Astronomie populaire," 3922.59; — "The atmosphere," 3961.53; 3965.62; — "Les merveilles célestes," 5923.26; (in English), 7920a.2; — "Études et lectures sur l'astronomie," 7929a.7; — "Histoire du ciel," 3921.55; — "Les mondes imaginaires," 3927.79; — "Les terres du ciel," 3924.67; — "Travels in the air," 5962.19; etc.

Flax and linen. Charley, W. T. 1192.1.6
Fleming, C. Practical horseshoeing 165.21
Flowers. Beecher, H. W. Pleasant talk about fruits, flowers and farming 1166.8
Johnson, E. A. Winter greeneries at home. 1164.3
Rand, E. S., *jr.* Garden flowers: how to cultivate them. 1174.5
Popular flowers, and how to cultivate them. 1174.2
Watts, E. Flowers and the flower garden. 150.44

See also Window gardening.

Consult the Bates Hall Card catalogue, under Botany, and the names of flowers, etc., mentioned under this heading; also, under Flowers, Plants, and the division "Botany" under the names of countries.

Flowers of the sky. Proctor, R. A. 1144.10
Follen, Eliza L. What the animals do and say. 1178.9
Fonssagrives, J. B. The mother's work with sick children 1165.23
Fontaine, E. How the world was peopled. Ethnological lectures 128.21
Food. Bernays, A. J. Food 1158.33
Buckton, C. M. Food and home cookery .. 1180.5
Felker, P. H. "What the grocers sell us" .. 1171.20
Fothergill, J. M., and Wood, H. C. Food for the invalid; the convalescent; the dyspeptic; and the gouty 1173.14
Manley, J. J. Preserved provisions 1192.1.12
Knight, J. The improvement of the health by natural means. Including a history of food 1156.7
Smith, E. Foods 1167.13
Thompson, *Sir* H. Food and feeding 1174.28

See also Butter and cheese, Eating.

The following, selected from the collection in the Bates Hall, may be consulted with profit: — Anderson: "Phosphates in nutrition," 3767.83; — Blyth (food analysis), 3977.66; — Cameron, 3769.64; — Fox, 3767.84; — Hassall (adulterations), 3978.70; — Letheby, 5763.18; — Lindley, *5919.50; — Pavy, 3764.53; — Payen, 5790a.3; — Ranke (in German), 3917.50.19; — Singer (adulterations), 3978.76; — Thomson, 3766.23; — Tyson, *3764.69.1; — Virchow (in German), *5914.50; — Vogl (in German), 3784.63; see also under the headings Adulterations, Diet, Digestion, Health, and the names of various articles of food.

For better or worse. Croly, J. C. 1128.13

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Forbes, G. The transit of Venus 147.1
Force. Abbott, J. Science for the young .. 184.42.4
Forney, M. N. Catechism of the locomotive 1193.5
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Forty-six social twitters. Loftie, *Mrs.* M. J. 1123.6
Foster, M. Physiology 1156.5
Foster, P. Le N. Photography. (*In* Bevan's British manufacturing industries) 1192.1.8
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Four feet, wings, and fins. Maskell, *Mrs.* A. E. A. 1154.12
Fox, J. Perpetual existence ..... No. 4 in 2109.30
France. Hamerton, P. G. Modern Frenchmen. Five biographies. 1878 ..... 1544.13
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Free-hand drawing. Smith, W. Free-hand drawing. No. 1–6 ..... 1209.26
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Stetson, —. Industrial drawing for beginners. Free-hand 209.18

See also Drawing.

Free thinking and plain speaking, Essays on. Stephen, L. 1118.13
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Mongredien, A. History of the free-trade movement in England 1139.20

Consult the Bates Hall Card catalogue under the headings Free trade, Political economy, Protection.

Freedley, E. T. Common sense in business. 1134.7
Freedley, E. T., *editor.* Home comforts ... 1181.7
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Contents. — The nature of religion, by D. A. Wasson; The unity and universality of the religious ideas, by Samuel Longfellow; Freedom in religion, by Samuel Johnson; Religion and science, by John Weiss; Christianity and its definitions, by W. J. Potter; The genius of Christianity and free religion, by F. E. Abbot; The soul of protestantism, by O. B. Frothingham; Liberty and the church in America, by J. W. Chadwick; The word philanthropy, by T. W. Higginson; Religion as social force, by E. D. Cheney; Voices from the free platform.

Freeman, J. E. Gatherings from an artist's portfolio 1205.12
Fresh leaves in the Book and its story. Ranyard, L. N. 118.15
Fret-cutting. Bemrose, W., *jr.* Fret cutting and perforated carving 1202.2
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Hulme, F. E. Examples for fret-cutting and wood-carving 1202.12
Sawyer, G. A. Fret-sawing and wood-carving for amateurs 1207.8

See also Wood-carving.

The following are in the Bates Hall: — Hope: "Sorrento and inlaid work," 4014.77; — Seaton: "Manual," 4018.68; — Williams: "Ornamental designs," *8070.62.

Frickell, G. Magic no mystery: conjuring tricks with cards, balls and dice; magic writing, performing animals, etc. 1187.12
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Fruit trees, The scientific and profitable culture of. Du Breuil, A..... 1166.2
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The following are selected from recent works on fruit in the Bates Hall collection: — Baker, 6007.1; — Barry, 5998.50; — Downing (1872), 6009.52; — Fuller, 4009.71; — Thomson: "Fruit culture under glass," 4009.59; see also Agriculture, Botany, Horticulture, Trees, and the names of various fruits.

Fuel, its combustion and economy. Williams, C. W. 1142.12

In the Bates Hall are works by Barr: "Combustion of coal," etc., 3974.62; — Clark, 3979.72; — Galloway, 3979 82, and others. See also under the headings Coal and Wood.

Funny side, The, of physic. Crabtree, A. D..... 1151.1
Furniture. Church, E. R. How to furnish a home 1201.8
Eastlake, *Sir* C. L. Hints on household taste in furniture 208.12
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Pollen, J. H. Furniture and woodwork...1192.1.7

The following works in the Bates Hall collection are nearly all illustrated: — Adams (styles of the reigns of Louis XIII and XIV), **C.A.1.4; — Braund (Plates), *C.F.13.1; — Brunet (hangings), 6090.53; — Clarence Cook: "The house beautiful," 4094.51; — Cooper (House furnishing), 4099.64; — Edis, 4096.56; — "Gothic album," 8077.11; — Hope, *39.F.1; — Jacquemart (history, in French), 4093.60; 4093.62; — Jonquet ("Sketches"), *6090.52; — Lebarte (Charles v), *2650.53; — Liévre, **C.F.13.2; — Louandre, *8072.6; — Loudon: "Encyclopædia," 4093.1; — Pfnor, **4090.65; — Pollen, 4018.69.3; — Pugin (Gothic), 4101.10; — Shaw (ancient), **8100.10; — B. E. Smith, *8100a.1; — South Kensington museum (Art handbooks, etc.), 4099.59; 4025.54; — Spofford: "Art decoration," 4094.52; — Talbert, **4090.71; *4090.55; — Thomson, **4100.54; — Viollet-le-Duc: "Dictionnaire raisonné du mobilier français de l'époque carlovingienne à la renaissance," *4095.62; — Watt: "Art furniture," 4109.10.

Periodicals. — Furniture gazette, *6962.1; — Gewerbehalle, *8090a.2.

The following treat of household art, including furniture: — Daubourg: "L'architecture intérieure," *4090.69; — "La décorative au XIXe siècle," **C.B.5.3; — Elliott ("American interiors"), *C.270.6; — Falke: "Art in the house," **4091.61; — Jones and Williams: "Household elegancies," 4007.9; — Little: "Early New England interiors," *8100a.2; — Loftie: "Plea for art in the house," 4099.35; — Orrinsmith: "The drawing-room," 4099.38; — Walter Smith (Centennial exhibition), *4092.53; — Williams and Jones: "Beautiful homes," 4097.11.

Future life, The to-morrow of death; or, the. Figuier, L..... 119.20

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Galletly, A. Coal. (*In* Bevan's British manufacturing industries).....1192.1.2
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Garden flowers: how to cultivate them. Rand, E. S., *jr*..... 1174.5
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Burbidge, F. W. Horticulture 1192.1.14

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Gardening, *continued*.
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Hogg, J. The vegetable garden 1167.22
Paul, W. Villa gardening..... 1163.5
Roe, E. P. Play and profit in my garden.. 1163.4
Warner, A. Gardening by myself 150.33
Miss Tiller's vegetable garden and the money she made by it 1159.21
Watts, E. Vegetables, and how to grow them 150.41

See also Agriculture, Flowers, Fruits, Window gardening, and in the Bates Hall: — Loudon: "Encyclopædia of gardening" (ed. of 1878), *3834.50; — and the Card catalogue under Horticulture and the headings there mentioned, as Bulbs, Flowers, Fruit, Landscape gardening, Vegetables, etc.

Gardner, A. K. Our children: their physical and mental development..... 125.22
Gardner, Celia E. Every inch a king. A story illustrating the reigns of David and Solomon 2103.17
Gardner, E. C. Home interiors..... 1206.3
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Gas and lighting. Patterson, R. H.....1192.1.4
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Geikie, C. The life and words of Christ..... 1101.7
Geikie, J. Geology.....1159.44
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Historical geology 1158.30
Geography. Grove, G. 1168.10

Consult the Lower Hall Catalogue of history, biography, and travel, under the names of countries; also the Bates Hall Card catalogue.

Geology. Benn-Walsh, J., *lord Ormathwaite*. Astronomy and geology compared..... 149.9
Dana, J. D. The geological story briefly told. An introduction to geology.....1147.16
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Gunning, W. D. Life-history of our planet. 1176.23
Kingsley, C. Town geology.....167.24; 167.26
Le Conte, J. Elements of geology..... 142.2
Philp, R. K. The reason why — physical geography and geology.....1164.17
Reclus, É. The history of a mountain....1144.14
Rutley, F. The study of rocks, an elementary text-book of petrology 1149.26
Steele, J. D. The story of the rocks.....1171.12
Tate, R. Rudimentary treatise on geology. 2 v. 819.42
Taylor, J. E. Geological studies 1144.12
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Ward, J. C. Elementary geology..... 1168.5

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Among many works in the Bates Hall are Lyell's "Principles of geology," 11th ed., 1872, 2 v., 3867.52; "The student's elements of geology," 3868.66; also examine the Card catalogue under the heading Geology, and the names of countries, division 54 (Geology).

Geometry. Angel, H. Practical plane and solid geometry 1149.13
Brooks, E. The normal elementary geometry 1149.20
Heather, J. F. The elements of mathematical drawing. (1st course.) Practical plane geometry 148.2
Mault, A. Natural geometry 1149.24
Spencer, W. G. Inventional geometry: a series of problems 1149.23

See also Perspective drawing.

Additional works on geometry can be found in the Bates Hall Card catalogue.

George, H. Progress and poverty: an inquiry into the cause of industrial depressions, and of increase of want with increase of wealth. The remedy 130.8

The remedy proposed is the substitution of a common for an individual ownership in land, which is, according to the author, "the source of all wealth, and the field of all labor."

Gérard, J. Lion hunting and sporting life in Algeria. Also adventures and exploits of famous hunters and travellers in India, Africa, and America 183.3
German, The. How to give it. How to lead it. How to dance it. By two amateur leaders 183.13
Germany. Hart, J. M. German universities: a narrative of personal experience 1128.9
Kappey, J. The songs of Germany 202.27

Consult, under the heading Germany, the Lower Hall Catalogue of history, biography, and travel, and the Card catalogues, both in the Lower Hall and the Bates Hall.

Getting on in the world; or, hints on success in life. Mathews, W. 128.9
Giberne, Agnes. Sun, moon, and stars. A book for beginners 1163.8
Gibson, W. H. The complete American trapper 1175.30
Gifford, H., *compiler.* The general receipt book 1159.40
Gift, The, of life. Wood, S. 129.28
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Contents.—Introduction; Asked of God, by Anna Shipton; Tell Jesus, by Anna Shipton; Three days in the life of Gellert [from The Sabbath at home].

Gilbert, C., *editor.* Endless mirth and amusement. A collection of games, shadow plays, magic, etc. 1187.6
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Gill, J. The art of teaching young minds to observe and think 138.27
Gill, William F. Home recreations 1366.18
Gill, William I. Evolution and progress: an exposition and defence 147.2
Gilman, Caroline. The poetic fate book 1187.4
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Girls', The, home book. Valentine, *Mrs.* R., *editor* 1188.6

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Glaciers. Geikie, J. The great ice age, and its relation to the antiquity of man 1144.9
Wonders of the physical world: the glacier [etc.] 1175.20

Consult, in the Bates Hall, Agassiz (several papers); —Braun, *3918.54.2; —Desor, 3862.56; —Rendu (Glaciers of Savoy), 3865.57; (in French, 3868.80); —Shaler and Davis, *3860.57; —Zurcher and Margollé, 5868.15; also the cards under Alps, Geology, Norway; and works on prehistoric times.

Gladden, W. The Christian way: whither it leads and how to go on 1118.25
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Contents.—The Vatican decrees; Vaticanism; Speeches of the pope.

Glaister, Elizabeth. Needlework 1182.11
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The following are selected from works in the Bates Hall collection: —Boutemps, 8026.23; —Deville: "Histoire de l'art de la verrerie dans l'antiquité" (illus.), *4021.57; — Feuchtwanger, *A.202.5; — Flamm, 4024.86; —Graeger (2 v. and Atlas), 8031.7; —Julia de Fontenelle, 8029.55; —Magnier (illus.), 8029a.83; —Nesbitt (illus.), 4029.94; —Peligot (illus.), 8026.24; 4024.59; —Sauzay (illus.), 8026.22; 8028.25.

Painted and stained glass. — Batissier (illus.), 4074.56; —Fromberg, 8069.18; —Gailhabaud, Text, *8102.9, Atlas, *8084.3; —Gilbert (Middle ages), *8080a.3; —Hancock (illus.), 4025.75; —Hucher: "Vitraux peints de la cathédrale du Mans" (Plates), **C.D.4.2; —Le Veil, 4065.31; —Reboulleau de Thoires, 8019a.2; —Winston (illus.), 4065.28.

Venetian glass.—Slade, *8020.50.

Gleanings in the fields of art. Cheney, E. D. 206.28
Glenny, G. M. F. Kitchen gardening made easy 1161.7
Glimpses of Nineveh. B.C. 690. Townsend, F. 1116.6
Glory, The, of the house of Israel. Strauss, F. 2094.10
Glynn, J. Rudimentary treatise on the power of water, as applied to drive flour mills [etc.]. 4th ed. 1149.11
God dealing with slavery. Spirit messages from Franklin, Lincoln, and others. Richmond, T. 127.24
Golden circle, The; a collection of choice piano music 201.32
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Goldsmiths' work. Boutell, C. Gold working 1192.1.11
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Good morals and gentle manners. Gow, A. M. 1137.5
Good voices, The, a child's guide to the Bible. Abbott, E. A. 115.7
Goodale, G. L. Concerning a few common plants ..... No. 2 in 1168.11
Gooding, R. A manual of domestic medicine 168.38
Goodrich, D. W. The art of computation ... 1169.66
Goodrich, F. B., and **Howland**, E. Ocean's story; maritime adventures [etc.]: and rise and progress of ship-building and ocean navigation. 1873 ..... 1161.3
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Gospel hymns and sacred songs. Bliss, P. P., and Sankey, I. D. 1207.15
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Gray, A. Botany for young people. Part 2. How plants behave, etc. 166.38
Darwiniana: essays and reviews pertaining to Darwinism 1177.31
Lessons in botany and vegetable physiology. 164.11

For other botanical works by Professor Gray, see the Bates Hall Card catalogue.

Great Britain. Bevan, G. P., *editor*. British manufacturing industries. 16 v. 1192.1
Blackstone, *Sir* W. Commentaries on the laws of England. 4 v. 1136.32
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Murray, A. S. Mythology. Illustrated chiefly from the myths and legends of Greece 2087.10

Consult the Lower Hall Catalogue of history, biography, and travel, and the Card catalogues both in the Lower Hall and the Bates Hall.

Greek hero-stories. Niebuhr, B. G. 2081.1
Greenfield, W. S. Alcohol: its use and abuse. 1174.16
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Grimmer, C. A. The coming catastrophe, being a prediction by C. A. Grimmer [and others] 1118.29
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Guide to needlework 1189.23
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The following are in the Bates Hall, and are illustrated: — "The applications of physical forces," 3962.57; — "Les comètes," 3921.62; — "The forces of nature," 3962.51; — "Les chemins de fer," 4018.18; — "The heavens," *5911.11; 5911.13; — "La lumière et les couleurs," 3928.58; — "Chemins de fer," 4015.26; — "Le soleil," 7928.3; — "Le son," 4048.65; — "The sun," 7924.6; — "The world of comets," 3924.65.

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Haddon, J. Rudimentary arithmetic. New ed. 1149.6
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The following, by Hamerton, are in the Bates Hall: "Contemporary French painters," *8061.12; — "The etcher's handbook" (illus.), 8069a.21; — "Etching and etchers," *8071.4; (illus.), 4074.58; 4074.61; — "Life of Turner" (illus.), 4068.21 and 22; — "A painter's camp in the Highlands," 4068.6; — "Painting in France after the decline of classicism," *8072.7; — "Thoughts about art," 8067.18; (new ed.), 4079.68; see also The Portfolio, *C.C.I.

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Hancock, T. The principles of peace exemplified in the conduct of the Society of Friends in Ireland, during the rebellion of 1798 ..... 1129.22
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Treatise on the steam engine 190.21
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Harding, J. D. Lessons on art 201.22
Harding, W. E. The athlete's guide. A handbook on walking, running and rowing 137.11
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Harmony, A text-book of. Horsley, C. E. 1207.20

In the Bates Hall: — Durutte (in French), 4045.64; — Hauptmann (in German), 8055.5; — Johnson, 4053.6; — Macfarren, 8055.2; — Marchand (in French), 4042.50; — Ouseley, 8041.36; — Richter, 4048.50; — Rimbault, 8041.37; — Schneider, 8043.15; 8052.18; — Stainer, A.215.1; — Virués y Spínola, 4053.4; — Weber (in German), 8055.4; — Zundel, 4045.59, etc. See also Music.

Harris, *Sir* W. S. Rudimentary magnetism .. 819.43
Harrison, W. H., *editor*. Psychic facts. A selection from the writings of various authors on psychical phenomena 1141.10
Hart, James M. German universities: a narrative of personal experience 1128.9
Hart, John. A practical treatise on the construction of oblique arches 190.10
Hartley, W. N. Water, air and disinfectants. 1158.34
Hartshorne, H. Our homes 1174.32
Hartwig, G. The aerial world: a popular account of the phenomena and life of the atmosphere 1161.2

The following, by Hartwig, are in the Bates Hall collection: — "The harmonies of nature" (illus.), 5814.1; — "Der hohe Norden in Natur- und Menschenleben," 2265.15; — "Die Inseln des grossen Oceans" (illus.), 3866.10; — "Das Leben des Meeres," 3907.6; — "The polar world" (illus.), 6263.7; 6263.11; — "The sea and its living wonders," 3825.54; — "Sea-bathing and sea-air," 5809a.21; — "The subterranean world," 3866.50; — "The tropical world," 3825.20; (new ed.), 3825.55.

Harvey, E. The American trotting horse. (*In* MacClure's Cyclopedia) 173.2
Same. (*In* Walsh, J. H. The horse in the stable and the field) 1173.12
Hastings, H. L. The guiding hand: or, authentic records of providential direction .. 118.25
Hatfield, R. G. The American house-carpenter. 7th ed. 1873 ..... 201.21
Hatton, J. L., *editor*. The songs of England. 202.24
Hatton, J. L., and **Molloy**, J. L., *editors*. The songs of Ireland 202.26
Hatton, Joseph. Printing. (*In* Bevan's British manufacturing industries) 1192.1.8
Hawks, F. L. Uncle Philip's conversations with children about the habits and mechanical employments of inferior animals. 1179.28
Hay fever. Wyman, M. Autumnal catarrh .. 155.5

In Bates Hall: — Beard, 3797.62; — Moore, 5809a.11.

Shelf. No.

Hazeltine, Mayo W. British and American education. The universities of the two countries compared 1124.12
Hazeltine, Miron J. Beadle's chess instructor ..... No. 2 in 1197.13
Health and hygiene. Baird, J. The management of health 1157.32
Beecher, C. E. Housekeeper and healthkeeper 1185.3
Bible hygiene, or health hints 1173.10
Black, J. R. The ten laws of health 1157.31
Blaikie, W. How to get strong and how to stay so 1173.8
Brown, J. Health: five lay sermons to working-people 160.32
Corfield, W. H. Health 173.14
Coupland, S. Personal appearances in health and disease 1174 19; 1174.20
Derby, G. An inquiry into the influence of anthracite fires upon health 197.38
Dress and health: or, how to be strong 1174.25
Granville, J. M. The secret of a clear head. 1174.30
Hall, W. W. How to live long; or, health maxims 1156.9
Hartshorne, H. Our homes 1174.32
Jacques, D. H. Hints towards physical perfection 154.8
How to grow handsome 1173.7
Kingsley, C. Health and education 1826.11
Knight, J. The improvement of the health of children and adults by natural means .. 1156.7
Lankester, P. Talks about health: a book for boys and girls 1173.16
Lewis, D. Five-minute chats with young women, and other parties [on health, etc.] 1828.14
Lincoln, D. F. School and industrial hygiene 1174.36
Mitchell, S. W. Fat and blood: and how to make them 1156.18
Osgood, H. Winter and its dangers 1174.35
Pleasonton, A. J. The influence of the blue ray of the sunlight and the blue ray of the sky, in developing animal and vegetable life [etc.] 1151.3
Richardson, B. W. Health and occupation. 1173.21
Ridge, B. Ourselves, our food, and our physic 1173.18
Smith, E. Health 1156.6
Studley, M. J. What our girls ought to know 1156.19
Tomes, R. The bazar book of health 1159.22
The youth's health-book 120.1
Trall, R. T. The hygienic hand-book 154.35
The mother's hygienic hand-book 1156.4

See also the Bates Hall Card catalogue under the headings American public health association, Adulterations, Bathing, Children, Climate, Digestion, Drainage, Dress, Food, Gymnastics, Health, Longevity, Massachusetts State board of health, Physiology, Sanitary science, Temperance, Training, Ventilation; and other headings referred to in a list under the title Health; also names of countries under the division "Sanitary affairs," or cities, division "Board of health."

Health lectures for the people. In Manchester [Eng.], 1875–78 ..... 1154.9
Health primers. *Namely:* —
Baths and bathing 1174.18
Coupland, S. Personal appearances in health and disease 1174.19; 1174.20
Greenfield, W. S. Alcohol 1174.16
The heart and its functions 1174.38
The house and its surroundings 1174.14
Premature death 1174.15
The skin and its troubles 1174.24

See also American health primers.

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Healthy houses. Eassie, W. 207.33
Healthy houses. Jenkin, F. 1174.26
Hearing. *See* Ear.
Heart, The, and its functions 1174.38
See also the Bates Hall Card catalogue.
Heat. Lees, W. Elements of heat 1149.12
Martineau, C. A. Easy lessons in heat 1141.8
The following are selected from works on this subject in the Bates Hall: — Armour: "Iron and heat," 4018.13; — Box, 5798.20; 3968.79; — Briot, 5965.4; — Cazin, 5979a.6; (in French, 5967.16; in German, 3917.50.3); — Clausius, 5971.4; — Draper, 3964.66; — Dupré (in French), 5965.3; — Ericsson, *5941.9; — Fourier, 3966.63; — Gordon (elementary), 3968.59; — Gouilly (in French), 3964.61; — Hirn (in French), 3964.54; — Lardner (new ed., 1877), 3967.61; — MacCulloch, 3964.60; — Maxwell, 5918.51; — Mouchot (in French), 5965.6; — Moutier (in French), 3967.53; — Murphy, 3962.14; — Orme, 5968.10; — Péclet (in French), 3960.4; 3960.6; — Pynchon, 5974.22; — Rammelsberg (in German), *5914.50.1; — Séguin (in French), 7920a.5; — Stewart (elementary), 5969.12; — Thomson, 3962.19; — Trowbridge, 3965,65; — Tyndall, 3962.50; 3965.51; ("Heat as a mode of motion"), 3968.61; 3960.12; — Verdet (in French), 5962.17; — C. W. Williams, 3960.10; 3967.5; — W. M. Williams (Simple treatise), 3969.90; — Zeuner, 3966.53.
See also Fuel, Heat (Animal), Radiation, Sun, Thermodynamics, Thermometer.
Heather, J. F. The elements of mathematical drawing. (1st course.) Practical plane geometry 148.2
Mathematical instruments. 3 v. 1195.13
Heaven, Twelve views of. Macleod, N., and others 1119.26
Helmholtz, H. Popular lectures on scientific subjects. 2 v. 1167.11
In Bates Hall can be found the following by Helmholtz: — "On the sensations of tone as a physiological basis for the theory of music," 4045.60; (Same, in German, 4056.24); — "Théorie physiologique de la musique," 4056.25; 4045.57; etc.
Hides and leather. Collins, J. 1192.1.9
Higgin, L. Handbook of embroidery 1180.12
Hill, J. W. The management and diseases of the dog 1174.12
Hill, Thomas. The true order of studies 120.2
Hill, Thomas E. Hill's manual of social and business forms 131.3
Hinton, J. Life in nature 128.22
The mystery of pain: a book for the sorrowful 119.16
Hinton, J., *editor.* Physiology for practical use 1155.14
Hints to women on the care of property. Walker, A. 1134.5
Hints to young architects. Wightwick, G. ...1193.12
Hints towards physical perfection. Jacques, D. H. 154.8
Histology, An introduction to the study of practical. Tyson, J. 1144.5
See also the Bates Hall Card catalogue.
History, The, of a mountain. Reclus, É. ...1144.14
History of the foundation of the Order of the visitation [etc.] 118.27
Hoare, C. "Iron and steel": a work for the forge, foundry, factory, and office 190.21
Hobbs, A. C. Construction of door locks 190.22
Hodges, J. F. Animals of the farm: their structure and physiology 1178.26
Hoffmann, L. Modern magic. A practical treatise on the art of conjuring 1184.2; 1184.8
Hogg, J. The vegetable garden 1167.22
Hogg, J., *editor.* The parlour menagerie 1178.16
Holbrook, M. L. Eating for strength 1159.41
Holden, C. F. Holden's book on [cage] birds. 1178.20
Holdsworth, E. W. H. Sea fisheries. (*In* Bevan's British manufacturing industries) 1192.1.13
Holland, H. S. The apostolic fathers 2101.2
Holly, H. H. Modern dwellings in town and country; with a treatise on furniture and decoration 1201.4

Shelf. No.

Holyoake, G. J. The history of co-operation in England: its literature and advocates. Vol. 1 .....1135.11
Contents. — The pioneer period, 1812–14.
Home, D. D. Lights and shadows of spiritualism 1122.6
Home. Stockton, F. R. and M. The home: where it should be, and what to put in it. 188.21
Wright, J. M. The complete home 181.4
Home amusements. Puzzlewell, Peter, *pseud.* 1188.7
Home arts for old and young. Smith, C. L. .. 1187.1
Home book, The, for young ladies. Valentine, *Mrs.* R., *editor* 1196.8
Home comforts. Freedley, E. T., *editor* 1181.7
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Home games for old and young. Smith, C. L. 1187.2
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Home, The, of the birds. By Grandfather Percy [*pseud.*] 1178.6
Home recreations. Gill, W. F. 1366.18
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Homes without hands. A description of the homes of animals 1171.3
Homley, E. B. Our poor relations. A philozoic essay 178.15
Hood, T., *jr.*, and **Broderip,** Frances F. Excursions into puzzledom. A book of charades, acrostics, enigmas, conundrums, etc. 1184.9
Hooker, *Sir* J. D. Botany 1167.21
The following are in the Bates Hall: — "Botany of the antarctic voyage of the Erebus and Terror, 1839–43," *3841.1; — "The distribution of the North American flora," 3848.71; — "The flora of Australia," 5840.9; — "The students' flora of the British islands," 3848.70; — "Journal of a tour in Marocco," 3055.56.
Hooper, Mary. Ways and tricks of animals, with stories about Aunt Mary's pets 1171.7
Hope, A. R., *pseud.* *See* Moncrieff, R. H.
Hopes and helps for the young. Weaver, G. S. 128.10
Horse. Elderkin, J. The turf and trotting horse of America 173.2; 1173.12
Harvey, E. The American trotting horse. 173.2: 1173.12
Hodges, J. F. Animals of the farm: their structure and physiology 1178.26
MacClure, R., *editor.* Every horse owner's cyclopedia 1173.2
Murray, W. H. H. The perfect horse 1174.3
Rarey, J. S. Taming or breaking the horse, by a new and improved method 1176.21
S., T. B. Stories about horses 1176.20
Wharton, C. Hand-book on the treatment of the horse in the stable and on the road. 1177.29
See also Farriery, Saddlery.
In the Bates Hall: — "The horse-book" (by the American society for the prevention of cruelty to animals), *5577.7; — and practical treatises by Armatage, 6009.53; — Bruce (pedigrees), 4004.56; — Fearnley soundness), 4006.62; 4008.38; — Fitzwygram, 6004.3; — Free-Lance, 6007.55; — Gerhardt (breaking), 4004.63; — Hanover (law of horses), 3663.9; — Helm (trotting horses), 4004.67; — Herbert, 6002.7; — Mayhew, 4004.15; — Moreton (breaking), 4007.75; — Nevile, 4009.76; — Pratt, 4007.63; — Régamey (anatomy), 8060a.16; — Sidney, 4002.57; — Stewart, 6008.69; — Wallace, 6002.19 (trotting, 6003.8); — Walsh, 4004.3; etc.
Horsemanship. Beadle, E. F. Handbook of riding and driving .....No. 4 in 1197.13
Melville, G. J. W. Riding recollections 1176.24

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Horsemanship, *continued.*

In the Bates Hall: — Baucher (in French), 6003.7; — Clarke ("Female equitation"), 4000.3; — Debost (in French), 4005.58; — Durant (medical point of view), 4006.68; — Dwyer, 6004.6; 4006.79; — Gerhardt (in French), 6003.5 and 6; 4004.63; — Greenwood, 4008.50; — "Lady's equestrian manual," 4008.10; — Lebeaud, 4004.28; — Montigny ("Equitation des dames"), 4004.68; — Nevile, 4009.76; — Phillips, 6009.34; — Rider ("Étude médicale"), 5809.31; — Sidney, 4002.57; — Walsh, 6009a.83; etc.

Horsley, C. E. A text-book of harmony....1207.20
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Horton, Caroline W. Architecture for general students 1207.6
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Hosiery and lace. Felkin, W.....1192.1.5
Hotel life, The law of. Rogers, R. V., *jr*... 1130.2
Houdin, J. E. R. The secrets of conjuring and magic 1181.1
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House, E. The missionary in many lands: sketches of missionary life and labours..2109.32
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House building. Gardner, E. C. Homes, and how to make them..... 207.34
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See also Architecture, Building, Carpentry, Joinery.

House decoration. *See* Decoration.
House drainage. *See* Drainage.
House furnishing. *See* Furniture.
House-owner's, The, estimator. Simon, J. D..... 190.50
House painting. Davidson, E. A. A practical manual of house-painting, graining, marbling, and sign-writing.....1193.13
Gardner, F. B. How to paint. A complete compendium of the art..... 209.15
The painter's manual.....1209.28

In Bates Hall: — Ducompex (in French), 4065.50; — Hay, 8077.14; — Masury, 4034.12.

Household art. *See* Decoration, Furniture.
Household taste, Hints on, in furniture [etc.]. Eastlake, *Sir* C. L. 208.12
Housekeeping in old Virginia. Tyree, M. C., *editor* 1183.2
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How to make a living. Eggleston, G. C..... 128.11
How to shine in society; or, the science of conversation 1129.28

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Howard, *Mrs.* B. C. Fifty years in a Maryland kitchen..... 1185.4
Howard, C. Frusher. Howard's California calculator..... 147.32
Howard, Clarence J. Book of conundrums and riddles.....180.125
Howard, F. The sketcher's manual; or, the art of picture-making on the simplest principles 1207.21
Howard, J. Practical chemistry.....1159.23
Howe, Julia W. Modern society 130.6
Howe, Julia W., *editor.* Sex *and* education. A reply to Dr. E. H. Clarke's "Sex in education".....1159.29
Howitt, Mary. Natural history stories for my juvenile friends 1175.14

In the Bates Hall there are the following by Mary Howitt: — "Birds and flowers," 2467.50; — "Sketches of natural history," 4569a.42; etc.

Howson, J. S. The metaphors of St. Paul and companions of St. Paul.....1118.18
Hoyle, E. Hardy, F., and Ware, J. R. The modern Hoyle 186.13
Hughes, H. The remarkable scenes of the Bible 2109.33
Hughes, T. The manliness of Christ 2101.8
True manliness.....1124.14
Huidekoper, F. Judaism at Rome B. C. 76 to A. D. 140.....1117.15
Hull, E. Quarries and building stones. (*In* Bevan's British manufacturing industries) 1192.1.2
Hullah, J. Cultivation of the speaking voice. 1155.16
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Human race, The. Figuier, L. 143.1
Humming birds. Adams, H. G. 1172.1
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Huxley, T. H. The crayfish.....1147.21
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The following by Huxley are in the Bates Hall: — "American addresses," 3826.50; — "Anatomy of invertebrated animals," 3889.51; 3889.52; — "Anatomy of vertebrated animals," 5908.5; 3888.51; — "Causes of the phenomena of organic nature," 3829.12; — "Elements of comparative anatomy," 3888.2; — "Essays," 4559a.23; — "Evidence as to man's place in nature," 3888.16; — "Hume," 2459.73; — "Introduction to the classification of animals," 5893.2; — "Lay sermons," 7565.12; — "Lessons in elementary physiology," 3769.48; — "More criticisms of Darwin, and Administrative nihilism," 5827.22; — "On yeast," No. 8 in *5915.50; No. 14 in *5913.51; — "Origin of species," 3829.4; — "Physiography," 3969.72; 3969.74; etc., and, with H. N. Martin, "A course of practical instruction in elementary biology," 3768.79.

Hyatt, A. About pebbles .....No. 1 in 1168.11
Commercial and other sponges....No. 3 in 1168.11
Hydraulic engineering. Burnell, G. R.....1196.11

The following works on hydraulics and hydraulic engineering are selected from the titles in the Bates Hall: — Armengaud, *4023.4 (2 v.), *4023.50, Atlas, *4020.50; — Aubuisson de Voisins, 3944.3; 3944.4; 3943.17; — Beardmore, 3943.25; — Box: "Practical hydraulics" (2d ed. 1870), 5948.8; — Bresse (hydraulic motors), 3945.59; — Collignon, *8013.8.2; — Darcy and Bazin, *3940.10; — Downing, 3944.8; — Dupuit, 3941.10; 3942.53; — Ewbank (ed. of 1870), 3945.51; — Francis ("Lowell hydraulic experiments"), *5940.1; — Genieys, 3942.16; — Gerardin, *3946.53, Atlas, *3940.51; — Hagen (in German), *3944.51, Atlas, *3940.20; — Hertel (in German), 4019.69; — Jackson: "Hydraulic manual," 3943.5; — Kutter (Discharge of rivers and canals), 3946.60; — Latour: "Travaux hydrauliques maritimes," *39.B.2; — Leffel (mill dams), 3945.61;

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Hydraulic engineering, *continued.*
— Marzy, 5948.20; — Moseley, 3944.23; — Nadault de Buffon (irrigation), 3991.6; — Neville (Tables, etc., for finding the discharge of water, 3d ed.), 3948.54; — Phillips, 3943.6; — Wiesbach (in German), 3943.4.
See also Aqueducts, Canals, Drainage, Engineering, Harbors, Rivers, Sewers, and the names of cities and towns, division "Water supply."

Hygiene. *See* Health.
Hymns. Bliss, P. P., and Sankey, I. D. Gospel hymns and sacred songs.....1207.15
Frothingham, O. B., *compiler.* A child's book of religion.....2109.36
See also Psalmody.

I go a-fishing. Prime, W. C..... 1185.8
Ide, G. B. Bible pictures; or, life-sketches of life truths.....2102.12
Illuminating. Patterson, R. H. Gas and lighting 1192.1.4
Illumination of books and manuscripts. Delamotte, F. A primer of the art of illumination 1202.11
A descriptive list of books in the Bates Hall on this subject can be found in Bulletin No. 34, July, 1875, page 391.
See also W. de Gray Birch and Jenner, *2112.41; — Bradley, *2115.14; 2118.2; — Canton, 2115.22; — Delamotte, 2115.16; *2115.27; — Denis, *2111.18; — Laurent de Lara (on vellum), *2115.32; — Shaw, *6141.5; **G.21.3; — Tymms, *2112.37; — Ward, 2212.33; — Wyatt, 8068.39.

Illustrated homes. Gardner, E. C. 1207.11
Imitation of Christ. Thomas à Kempis....1118.26
Immigrant builder, The. Dwyer, C. P. ... 196.33
Immortal life, The. Weiss, J. 1114.19
Imray, J. Practical mechanics..... 190.23
In the kitchen. [Receipts.] Miller, E. S. 1185.5
In the woods. A book for the young.....1178.32
Devoted chiefly to the haunts and habits of birds.

India. Johnson, S. Oriental religions and their relation to universal religion..... 2091.3
India-rubber, Gutta-percha and. Collins, J. 1192.1.9
The following are in the Bates Hall: — Figuier (in his "Merveilles de l'industrie"), 4021.58.2; — Goodyear, 8013.10; — Hancock, 8013.11; — Winkelmann (in German), *5914.50.10.

Industrial arts, The: historical sketches.... 190.11
Industrial classes, The, and industrial statistics. Bevan, G. P. 2 v. ..Vol. 15, 16 of 1192.1
Consult the Bates Hall Card catalogue, under Labor and laboring classes.

Infant diet. Jacobi, A. 1159.31
See also Children, Food.

Infantry tactics, double and single rank. 1874. Upton, E. 1199.38
Ingersoll, E. Friends worth knowing. Glimpses of American natural history..1176.27
Ingraham, J. H. The Prince of the house of David; or, three years in the Holy city..1105.24
Insane hospitals. Chambers, J. A mad world and its inhabitants.....1156.16
Insectivorous plants. Darwin, C. 1175.18
Insects. Ballard, J. P. Insect lives; or, born in prison.....1179.29
Half hours in the tiny world. Wonders of insect life.....1175.27
Packard, A. S., *jr.* Half hours with insects..... 1174.9
See also Ants, Bees, Butterflies.
Examine the Bates Hall Card catalogue, under the heading Entomology; under this division of countries; and under the names of different insects.

Intellectual life, The. Hamerton, P. G. ... 1137.4
Intemperance. Jenkins, E. The Devil's chain 1128.22; 1128.24
See also Alcohol, Temperance; also the cards in the Bates Hall catalogue under Intemperance and Temperance.

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Interest. Doty, D. Smith's interest tables. 132.2
See also the cards in the Bates Hall catalogue under Banks and banking, Finance, Interest.

Interesting chapters in Scripture history and Bible illustration.....2109.31
International scientific series. *Namely:* —
Bagehot, W. Physics and politics..... 1132.7
Blaserna, P. The theory of sound in its relation to music.....1207.13
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Semper, C. Animal life as affected by the natural conditions of existence..... 1146.9
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Invalids. Power, H. How shall we employ and amuse our invalids?.....1157.33
Inventional geometry. Spencer, W. G. ...1149.23
Inventions. Routledge, G. Discoveries and inventions of the nineteenth century. 1147.7
The following are selected from titles of works on inventions, in the Bates Hall: — Beckmann (History, 2 v., 1846), 8037.2; — Figuier ("Les grandes inventions"), *5981.2; — "History of wonderful inventions," 4038.50; — Lalanne ("Curiosités des inventions"), 4019.33; — Maigne ("Dictionnaire"), 4039.51; — Peudefer de Parville, 8018.13; — Ramée, 4024.52. See also Patents.

Ireland. Hancock T. The principles of peace exemplified in the conduct of the Society of Friends in Ireland, during the rebellion of 1798.....1129.22
Hatton, J. L., and Molloy, J. L., *editors.* The songs of Ireland..... 202.26
Consult the heading Ireland in the Bates Hall Card catalogue.

Iron. Campin, F. A treatise on the application of iron to the construction of bridges, girders, roofs, and other works..... 199.44
Hoare, C. "Iron and steel:" a work for the forge, foundry, factory, and office.... 190.21
Williams, W. M. Iron and steel.....1192.1.1
Works on iron by the following authors are selected from the titles in the Bates Hall: — Armour ("Iron and heat"), 4018.13; — Barlow, 4014.15; 4018.5; — Bauerman ("Metallurgy of iron"), 5860a.28; — Bell (smelting), 4015.71; — Brandt (in German), 4095.51; — Byrne (ed. of 1874), 8014.52; — Campin, 4014.58; — Day ("Prehistoric use"), 2235.59; — Dempsey (in railway structures), A.200.9; — Fairbairn, 4015.77; — Fordyce, 3860.33; — Hefner-Alteneck, *8010.2; — Kohn, *8020.25; — Kirkaldy (wrought iron), A.200.4; — Landrin (in French), 4019.37; 5860.16; — Lesley, 4266.9; — Liger (in French), 4014.24; — Osborn (Metallurgy of), 7861.6; — Percy (Russian sheet-iron), 8016.10; — Pole, 8018.39; — Rankine, *4010.60; — Sheilds (strains on ironwork), 8012.51; — Styffe, 8013.23; — Tolhausen, *8037.7; — Tredgold, 4018.3 and 4; — Truran, 7861.20; etc.
Periodicals. — American iron and steel association Bulletin, *7320.5; — "Iron," *5910.50.
Also see the headings Bessemer process, Bridges, Roofs, Steel, and the names of countries, division "Manufactures and useful arts."

Italy. Poynter, E. J., and Head, P. R. Classic and Italian painting.....1204.11

Jacobi, A. Infant diet.....1159.31
Jacox, F. Scripture texts illustrated by general literature 1117.22
Jacques, D. H. Hints towards physical perfection: or, the philosophy of human beauty 154.8
How to grow handsome; or, hints toward physical perfection..... 1173.7

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Jameson, Anna M. Sacred and legendary art. 1207.28

Other writings of Mrs. Jameson on art are in the Bates Hall.

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Jepson, B. The elementary music reader ... 206.23
Jerusalem. Strauss, F. The glory of the house of Israel; or, the Hebrew's pilgrimage to the Holy city 2094.10
Jesus. *See* Christ.
Jevons, W. S. Logic 1129.17
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Wild, J. The lost ten tribes: and 1882 .... 2102.17

Examine also the cards in the Bates Hall catalogue.

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Johnson, Louisa. Every woman her own flower gardener. A handy manual of flower gardening for ladies. By Mrs. S. O. Johnson 150.12
Johnson, *Rev.* Samuel. Oriental religions and their relation to universal religion. India 2091.3
Johnson, Samuel W. How crops feed. The atmosphere and the soil as related to the nutrition of agricultural plants 1175.29
Johnston, J. F. W. The chemistry of common life. New ed. 1146.2
Joinery. Davidson, E. A. The boy joiner. 1203.13
Davidson, E. A. Drawing for carpenters and joiners 1193.15
Tarn, E. W. A treatise on joinery 190.51

See also Carpentry; and articles in The popular recreator, 181.3.

Jones, *Mrs.* C. S., and **Williams**, H. T. Ladies' fancy work. Hints and helps to home taste and recreations 1187.13
Jones, H. Card essays. Clay's decisions and card-table talk. By "Cavendish" [*pseud.*]. 1183.7
Jones, Lucy. Puddings and sweets, being 365 receipts approved by experience 1184.5
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Joy; or, new dramatical charades for home performance. De Younge, A. 1367.22
Judaism at Rome B. C. 76 to A. D. 140. Huidekoper, F. 1117.15
Judge and jury. Abbott, B. V. 1135.14
Just how: a key to the cook-books. Whitney, A. D. T. 1181.4

Kane, J. J. Adrift on the black wild tide. [On the yellow fever] 1114.12
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In the Bates Hall are the following books on the Kindergarten: — Douai, 5599a.50; 5599.30; — Froebel, 2905.50; 4900.4; — Goldammer, 7592.6; — Handbook, 5591.57; — Leidesdorf, 3599.65; — Macfarren, 8042.47; — Mrs. Mann and Miss Peabody, 5597.51; 5598.51; — Marenholtz-Buelow, 3597.70; 3598.72; (in German), 3595.67; 5599a.41; — Payne, 3598.80; — Shirreff, 3598.78; — Wiebe, *7590.5.

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Kingsley, C. Health and education 1826.11
Town geology 167.24; 167.26
True words for brave men 1124.8

Charles Kingsley's other writings can be found in the Bates Hall. The following are on scientific subjects: "Glaucus, or the wonders of the shore," *2568.57; — "Sanitary and social lectures," 2556.62; — "Scientific lectures and essays," 3918.71.

Kingston, W. H. G. The boy's own book of boats 1187.14
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The sea and its wonders 1142.6
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Knight, J. The improvement of the health of children and adults by natural means. Including a history of food 1156.7
Knitting. Cupples, A. J. A knitting-book of counterpanes [etc.] 189.47
The lady's book of knitting and crochet 1188.13
The lady's knitting-book 1188.11
Knowlton, Helen M. Hints for pupils in drawing and painting. With illustrations from charcoal drawings by W. M. Hunt. 1203.16
Knox, T. W. Underground; or, life below the surface 1191.1
Kruesi, H. Drawing. Analytic series. No. 1–6 ..... 1209.31
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Same. Inventive course — synthetic series. 1204.6
Drawing. Perspective series. No. 1–3 .... 1209.32
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Same. Part 4 ..... 1204.8

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Newcomb, S. The A B C of finance; or, the money and labor questions explained. 1139.18
Thompson, J. P. The workman: his false friends and his true friends 1135.13

See also Political economy, Poor.

Consult also the Bates Hall Card catalogue under the headings Labor, Children, Co-operation, Factories, Political economy, Poor, Slavery, Social science, Ten hour law, Trades-unions, Wages; and under the names of countries, division "Laboring classes." See also Massachusetts, *Bureau of statistics of labor;* and National association for the promotion of social science.

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La crosse. (The national game of Canada.) Robinson, M. H.....180.117
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Landscape art, Letters and studies on. Tyrwhitt, R. St. J. Our sketching club. 206.13
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Lankester, Phebe. Talks about health: a book for boys and girls 1173.16
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See also Business, Patent law.

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In the Bates Hall: — Great Britain, *Patents* (Patent Room); — Schmidt (in German), 8028.3; — Schultz: "The leather manufacture in the United States," 4016.56.

Le Conte, J. Elements of geology..... 142.2
Lee, S. The Bible regained, and the God of the Bible ours; or, the system of religious truth in outline 2087.8
Lees, W. Elements of acoustics, light, and heat 1149.12
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Houdin, J. E. R. The secrets of conjuring and magic..... 1181.1

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See also Alphabets.

Lewes, G. H. History of philosophy from Thales to Comte. 2 v..... 1121.3

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Lewis, Dio. Five-minute chats with young women, and certain other parties [on health, etc.].....1828.14
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Life and her children. Glimpses of animal life. Buckley, A. B. 1146.4
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Linn, T. The practical paper hanger. (*In* The painter's manual) 1209.28
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In the Bates Hall: — Tomlinson: "Rudimentary treatise on the construction of locks," 8018.11.

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Locomotion. Marey, É. J. Animal mechanism: a treatise on terrestrial and aërial locomotion 1167.16

In the Bates Hall are two works, in French, by Barthez, No. 15 in *7801.13; — Lenoble du Teil, 4000.50.

Locomotive engine. Dempsey, G. D. A rudimentary treatise on locomotive engines 190.7
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Smiles, S. Lives of the engineers. The locomotive 1537.1.4

See also Steam and the steam-engine.

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See also in the Bates Hall treatises by Atwater, 5609.29; — Bain, 3607.74; 7605.22; — H. N. Day, 3609.55; — Emmens, 3609.67; — C. C. Everett, 7607.22; — Fowler, 5604.59; — Gilmore, 5606.71; — W. Hamilton, 5003.2; — Hegel (English), 3604.56; — Jevons: "Elementary lessons," 7609.18; "The principles of science," 3604.55; 5607.75; Studies in deductive logic," 7603.71; — McCosh, 7603.79; — Mill (6th ed., 1865), 5609.19; — Monck, 7603.67; — Read, 5604.61; — Thomson, 5608.30; 7606.21; — Ueberweg (in English), 3605.51; — Whately (ed. of 1868), 5609a.37; and many other works.

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Loomis, E. A treatise on meteorology..... 1142.4

The following, by Professor Loomis, are in the Bates Hall: — "Analytical geometry," 5922.7; — "Elements of astronomy," 5926.36; — "Elements of geometry and conic sections," 7937.73; — "Elements of plane and spherical trigonometry," 5922.58; — "The recent progress of astronomy; especially in the United States," 3929.62; — "Tables of logarithms," **5013.57; — "Treatise on astronomy," 5923.9; — "Treatise on meteorology," 5962.4.

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MacClure, R., *editor.* Every horse owner's cyclopedia 173.2

Contents. — Diseases, and how to cure them, by J. H. Walsh; — The American trotting horse, by E. Harvey; — The turf and trotting horse of America, by J. Elderkin.

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See also Engineering, Mechanics, Saws, Steam and the steam-engine, Turning, Wood-working machinery.

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Dictionaries and encyclopædias. — Appleton, 2 v., *8030.5; — Rankine, *4010.60.

See also in the Bates Hall Card catalogue works under the names of different machines and parts of machines.

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MacLaughlin, M. Louise. China painting. A manual for the use of amateurs in the decoration of hard porcelain.....1204.14
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The experiences of the author, who, feigning insanity, was confined in an insane asylum in New York city.

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Frickell, G. Magic no mystery, etc. 1187.12
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Consult also the Bates Hall Card catalogue, under Magic and Occult sciences.

Magic lantern, The; how to buy and how to use it. Also how to raise a ghost 1189.8
Magic lantern manual, The. Chadwick, W. J. 1184.7

See also Dolbear's "Art of projecting," in the Bates Hall 3966.56.

Magnetism. Cook, J. Magnetism and electricity 1159.46
Harris, *Sir* W. S. Rudimentary magnetism. 819.43
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See also Physical geography; and consult the Bates Hall Card catalogue for other works.

Man, The, with the Book; or, the Bible among the people. Weylland, J. M. 127.22
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Manners and customs, Primitive. Farrer, J. A. 1147.18
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Beecher, H. W. Lectures to young men. 1114.14; 1118.21
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How to shine in society 1129.28
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Modern etiquette, in private and public 1129.31
Moore, C. J., *compiler.* Sensible etiquette of the best society 1123.5
Pellico, S. On the duties of young men ... 1114.10
Powers, *Mrs.* S. D. Behaving; or, papers on children's etiquette 1137.11
Society small talk; or, what to say and when to say it 1123.8

See also additional works in the Bates Hall.

Manners and tone of good society 1123.7
Manning, J. M. Half truths and the truth .. 2095.23
Manual for teachers. No. 1–5. 5 v. 129.29

Contents.—No. **1.** The cultivation of the senses. **2.** The cultivation of the memory. **3.** On the use of words. **4.** On discipline. **5.** On class teaching.

Prepared at the request of the literature committee of the National educational society, by various authors.

Manufactures, useful arts, etc. Tomlinson, C. Useful arts and manufactures 190.26
Ure, A. A dictionary of arts, manufactures and mines. 3 v. ..... R.R., D.17
Watt, A. Scientific industries explained, showing how some of the important articles of commerce are made 190.57

Consult the Bates Hall Card catalogue under this heading and that of "Industrial arts;" under the names of manufactured articles, as Cotton, Glass, Iron, Linen, Pottery, Silk, Steel, Wool, etc.; and under the names of countries, division 78 ("Manufactures and useful arts").

Mapother, E. D. Animal physiology 177.45
March, D. Night scenes in the Bible 1114.3
Marey, É. J. Animal mechanism: a treatise on terrestrial and aërial locomotion 1167.16
Marine zoology. Damon, W. E. Ocean wonders: a companion for the seaside ... 1147.15
Duncan, P. M. The sea-shore 1164.7
Jones, W. The broad, broad ocean and some of its inhabitants 1163.7

In the Bates Hall: — Berthelot: "Vitalité des mers," 3826.53; — Emerton: "Life on the seashore," 3826.56; — Gosse (Great Britain, 2 v.), 7868.25; — Haeckel, *5914.50.5; — Hincks (British, 2 v.), 3872.55; — Jaeger, 5903.13; — Landrin: "Les monstres marins," 5897.35; — also consult works on the Sea, the Aquarium, the names of various species, etc.

Marion, F. The wonders of vegetation 1179.22
Marquetry. Manual of. Bemrose, W., *jr.* .. 1202.4
Marriage. Croly, J. C. For better or worse. A book for some men and all women 1128.13
Marsh, S. Section-cutting: a practical guide to the preparation and mounting of sections for the microscope 190.28
Martin, H. N. The human body 140.1
Martin, W. The book of sports, for boys and girls 1189.16
Martineau, C. A. Easy lessons in heat 1141.8
Martineau, J. Hours of thought on sacred things. Sermons. 2 v. 1117.16
Martyrdom, The, of man. Reade, W. W. .. 1145.3
Marvels from nature. Wright, B. E. 167.20
Masé, E. Art-needlework for decorative embroidery; with diagrams. Edited by Lucretia P. Hale 1201.5
Same. 2d ed., revised ..... No. 1 in 1180.13

Shelf. No.

Maskell, *Mrs.* A. E. A. Four feet, wings, and fins 1154.12
Mason, A. B., and **Lalor**, J. J. The primer of political economy 1139.8
Massachusetts art teachers' association. The Antefix papers. Papers on art educational subjects 201.24
Masters, M. T. Botany for beginners 169.45
Matéaux, Clara L. Sunday chats with sensible children 1112.1
Mathematical instruments. Heather, J. F. 3 v. 1195.13
Mathematics.

See the Bates Hall Card catalogue for books on mathematics. There is a special Card catalogue of such books, which can be consulted if desired.

Mathews, W. Getting on in the world; or, hints on success in life 128.9
Matter. Maxwell, J. C. Matter and motion 1158.32
Mivart, St. G. Lessons from nature, as manifested in mind and matter 1129.16
Mault, A. Natural geometry: an introduction to the logical study of mathematics. Based upon the tachymetrical works of E. Lagout 1149.24
Maxwell, J. C. Matter and motion 1158.32
Mayer, A. M. Sound: a series of simple experiments 1146.7
Mayer, A. M., and **Barnard**, C. Light: a series of simple experiments 1146.8
Mays, T. J. Consumption and how to prevent it 1173.9
Measurements, Quantities and. Beaton, A. C. 1149.4
Measurer, The complete. Horton, R. 190.46
Mechanical drawing. Binns, W. An elementary treatise on orthographic projection 206.10
Davidson, E. A. Drawing for bricklayers. 1193.11
Drawing for carpenters and joiners 1193.15
Drawing for metal plate workers 1204.20

Also, in Bates Hall: — Clarke: "Practical geometry and engineering drawing," 3921.63; — MacCord, *C.270a.6; — Prang (Plates), *C.C.9.2; — Riddell, 4012.62; — Tomkins, 4013.58; see also Drawing.

Mechanical movements, Five hundred and seven. Brown, H. T. 1197.12
Mechanics. Axon, W. E. A. The mechanic's friend 190.16
Ball, R. S. Experimental mechanics 194.2
Benjamin, P., *editor.* Wrinkles and recipes, compiled from the Scientific American ... 1187.11
Brown, H. T. Five hundred and seven mechanical movements 1197.12
Hann, J. Mechanics, theoretical and practical 190.19
Imray, J. Practical mechanics 190.23
Lukin, J. The amateur mechanic's workshop 190.15
The boy engineers: what they did and how they did it 1204.2; 1204.3
Moore, R. The artizans' guide 1207.7; 1209.29
Newth, S. Elements of mechanics 190.29
Rankine, W. J. M., and Bamber, E. F. A mechanical text-book 190.34
Richards, J. The economy of workshop manipulation 1207.12
Rossiter, W. An elementary handbook of applied mechanics 1197.10
An elementary handbook of theoretical mechanics 1197.11
Shelton, W. V. The mechanic's guide 190.35
Unwin, W. C. The elements of machine design 1196.9

Shelf. No.

Mechanics, *continued.*
Winton, J. G. Modern workshop practice, as applied to marine, land, and locomotive engines, etc. 190.37

See also Earthwork, Engineering, Machinery, Statics.

The following works, for the most part recently published, are selected from the titles in the Bates Hall Card catalogue: — Armengaud: "L'ouvrier-mécanicien," 5948.16; — Ball: "Mechanics," 3948.68; — Bartlett (analytical, 8th ed., 1868), 7942.25; — Bartlett (synthetic, 6th ed., 1871), 3945.64; — Bonnet: "Leçons de mécanique élémentaire," 3945.52; — Bour: "Mécanique et machines," 5942.6; — Bresse: "Mécanique appliquée," 3946.54, Atlas, *3940.5; — Byrne: "Essential elements," 3945.53; — Cahen: "Notions élémentaires," **5017.62; — Campin: "Mechanical engineering," 4014.58; 8018.16; — Clark: "Rules, tables, and data for mechanical engineers," *8038.6; — Collignon: "Mécanique appliquée," 3 v., *8013.8; "Traité," 2 v., 3926.62; — Delaunay: "Traité de mécanique rationnelle," 4th ed., 1866, 5946.2; — Duhamel, 3944.24; — Dulos (in French), 3946.58; — Dwelshauvers-Dery (in French), 3946.63; — Gand (in French), 3945.63; — Gilbert: "Mécanique analytique. Partie élémentaire," **5013.68; — Goodeve, 5918.69; 5948.58; 5918.57; — Gossin (in French), 3969.54; — Hann, 3944.12; — Haswell: "Engineers' and mechanics' pocket book" (ed. of 1880), 3938.67; — Hughes: "Easy lessons," 5949a.52; — Laurent (in French, 2 v.), 5947.6; — Leclert (in French), 5948.12; — Le Priol: "Introduction à la mécanique," 5947.12; — Lodge (elementary), 3948.69; — Nystrom: "New treatise," 3943.1; "Pocket-book," 3929.33; — Peck (elements), 5948.4; 5948.9; — Peirce (analytical), 3941.16; 4271.4; — Piarron de Mondesir: "Dialogues" (in French), 5947.4; — Poncelet (in French), 8020a.16; — Potter (elementary, 3d ed., 1855), 5946.6; — Redtenbacher (in German), 4014.52; 4015.76; *8011.30; — Resal (in French, 5 v.), 3945.56; — Ritter (in German), 3943.53; 3944.53; 3944.56; — Saint-Germain (in French), 3946.64; — Sasias: "Cours à L'école navale impériale," 5947.13; — Simon: "Leçons de mécanique élémentaire, 5927.17; — A. W. Smith: "Elementary treatise," 5946.1; — Spon: "Workshop receipts," **4018.58; — Thomas (applied to agriculture), 5997.13; — Tresca (in French), 5941.7; — Wernicke: "Lehrbuch," 3946.70; — Williams, 3945.11; — Wood, 3945.65; 3948.64; — Wormell, 5948.6.

Dictionaries. — Appleton, *8030.5; "Appletons' Cyclopædia of applied mechanics," B. H. Desk, L.19; — Knight, B. H. Desk, L.2; *8036.3; — Spon, *8037.6, etc.

Works on Natural philosophy include Mechanics. These are to be found in the Bates Hall Card catalogue under the heading Physics. See also Animal mechanics, Dynamics, Engineering, Friction, Heat, Hydraulics, Hydrodynamics, Machinery, Mill-work, Motion, Patents, Statics, and other headings referred to in a list under Mechanics in the Bates Hall Card catalogue.

Mediæval and modern saints and miracles. [With appendix.] Not Ab uno e Societate Jesu 2104.21
Medicated inhalations, Consumption [etc.] treated by. Dillenback, H. P. 1173.6
Medicine. Crabtre, A. D. The funny side of physic: or, the mysteries of medicine. 1151.1
Gooding, R. A manual of domestic medicine 168.38

See also Health and hygiene, Pathology, Physiology; and the cards in the Bates Hall Card catalogue. The Library has Ziemssen's "Cyclopædia of the practice of medicine," in both the German edition, *5721.50, and the English translation, 17 vols., *3712.53. This is one of the latest and best comprehensive works.

Melville, G. J. W. Riding recollections 1176.24
Mensuration. Brooks, E. The normal elementary geometry: embracing a treatise on mensuration 1149.20
Todhunter, I. Mensuration for beginners, with examples 1141.15
Merry circle, The. Bellew, C., *editor* 186.10
Merrythought, A. Carving made easy 1182.3
Mesmerism. Carpenter, W. B. 1127.10

Consult the Bates Hall Card catalogue under the heading Animal magnetism.

Metal plate working. Davidson, E. A. Drawing for metal plate workers 1204.20
Metallurgy, Manual of. Greenwood, W. H. 2 v. 1178.8

The following works on metallurgy and metals are selected from titles in the Bates Hall Card catalogue: — Bauerman (iron), 5860a.28; — Beau (Atlas), *38.C.1; — Bloxam, 8018.12; — Byrne: "Practical metal-worker's assistant" (ed. of 1874), 8014.52; — Chantre (in France), *2230.55; Atlas, **C.C.8.1; — Chrétien (in French), 8019a.4; Atlas, 8021.34; — Church ("Metallurgical journey in Europe"), 3863.54; — Davies, 3868.81; — Gillon (in French), 7862.4; — Kerl, 3 v., 7861.2; (German editions, 5860a.5; 7864.34); — Percy: "Metallurgy," 3865.66; 3863.67; 5860a.2; (in French,

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Metallurgy, *continued.*

4 v.), 7861.21; "Metallurgy of lead," 7862.26; — Phillips, 3863.21; — Rammelsberg: "Lehrbuch," 5973.13; — Rivot (in French, 4 v.), *3864.50; — Scheerer: "Lehrbuch," 3865.9; — J. Silversmith, 5869.55; — With, 3862.52.

Metal work. — King (Moyen âge, Plates), **C.F.5.1; — Pugin (Designs, 15th and 16th centuries), 4101.11; (Designs for gold and silversmiths), 4071.2; — Shaw: "Examples of ornamental metal work," **G.13.11; — Talbert: "Examples," *,*4090.71; — Wyatt: "Metal work and its artistic design," *4050.14.

See also in the Bates Hall Card catalogue the headings: — Alloys, Assaying, Electro-metallurgy, Foundry, Mines, Ores, the names of the various metals, and the names of countries, division, "Mines and mining."

Metals. Bloxam, C. L. Metals: their properties and treatment 1142.17
Scoffern, J., and others. Useful metals and their alloys 1142.24

See also Brass, Coal, Copper, Iron, Steel, Tin, Zinc.

Metcalfe, W. Out of the clouds: into the light. Seventeen discourses 2098.31

Meteorology, A treatise on. Loomis, F. ... 1142.4

The following are selected from the titles to be found in the Bates Hall Card catalogue: — Blasius: "Storms," 3968.60; — Buchan: "Handy book," 5960.8; 5968.5; — Criswick, 5999a.3; — Daniell: "Elements," 3964.9; — Fitz Roy, 3961.9 and 11; — Ganot: "Traité élémentaire," 3965.7; 5969.58; — Guyot: "Tables," *3350.2.1; — Hahn: "Ueber die Beziehungen der Sonnenfleckenperiode zu meteorologischen Erscheinungen," 3966.61; — Houzeau and Lancaster: "Traité élémentaire," 3969.89; — Jelinek: "Anleitung," 5962.15; — Lommel: "Wind und Wetter," 3917.50.10; — Loomis, 5962.4; — Marié-Davy: "Météorologie générale," 3964.59; — "Météorologie et physique agricoles," 3968.71; — Mueller: "Grundriss," 5969.14; "Lehrbuch," 2 v. 3967.50; "Principles," 5964.18; 7962.2; — Pouillet (7e éd., 1856, 3 v.), 3964.18; — Reclus: "Les phénomènes terrestres," 3969.58; — Schmid: "Lehrbuch," *5943.1.21; — Scott: "Weather charts and storm warnings," 3968.77; — "Symons's monthly meteorological magazine," *3967.57; — United States, *War dep't:* "Annual report of the chief signal officer," 5965.53; — also, consult the cards under the headings Aeronautics, Air, Atmosphere, Aurora borealis, Barometer, Climate, Cold, Electricity, Forests, Frost, Great Britain: *Admiralty; Royal observatory, Greenwich;* and *Meteorological office;* Hail, Heat, Hurricanes, Instruments of precision, Isothermal lines, Lightning, Meteors, Monsoon, Physics, Rain, Storms, Temperature, Thermometer, Thunder storms, Tornadoes, United States: *Naval observatory;* Water, Weather, Wind; also under countries, division "Meteorology and climatology."

Metric system, The, of weights and measures. Barnard, F. A. P. 192.1

The following works are in the Bates Hall: — F. Brooks, *3934.29; — Burvenich, 3687.3; — Colin, 3938.58; — Craig, 7939a.15; — Davies, 5938.29; — Dowling, 5688.16; — Felton, 5938.2; — Fonvielle: "Le mètre internationale définitif," 3648.63; — Franklin institute, Report, No. 2 in *3934.25; — Frazer, No. 3 in *3934.25; — Gibbon, 6087.72; — Jackson, 3934.19; — Kohlmann, 5939a.7; — Landolt, 3806.65; — "The metric bulletin," *3936.32; — "The metric system," 5938.13; — Nystrom, No. 1 in *3934.25; — Oldberg (in medicine), 3788.73; — Putnam, 3936.55; — Sawyer: "Metric manual for schools," 3936.31; — C. Sumner, No. 1 in *4395.60; — Tarnier, 5688.8; — Thomson, 3936.58; — United States (Report of committee of congress), *3934.28; — Walton, 5938.9. Consult also the Card index of the Congressional documents of the United States, and the printed indexes of the Parliamentary documents of Great Britain.

Microphone, The. Du Moncel, T. A. L., *comte* 1197.14

Microscope. Cooke, M. C. One thousand objects for the microscope 1148.16
Lankester, E. Half-hours with the microscope 1158.29
Marsh, S. Section-cutting: a practical guide to the preparation and mounting of sections for the microscope 190.28

The following are selected from works in the Bates Hall Card catalogue: — Adan (in French), 3925.63; — Brocklesby, 5924.6; — Beale: "How to work with the microscope" (5th ed., 1880), 3923.63; "The microscope in medicine" (4th ed., 1878), 3793.52; — Carpenter (5th ed., 1875), 3928.67; — Chevalier: "L'étudiant micrographe," 3927.54; — Davies, 5929a.5; — Dippel: "Das Mikroskop und seine Anwendung," 2 v., 7924.1; — Donné: "Cours de microscopie," *37.H.1; — Fonvielle: "Les merveilles du monde invisible," 5908.20; — Frey, 3922.50; — Girard (Photomicrographie), 7929a.6; — Gerlach (in German), 5762.15; — Griffith: "Elementary text-book," 3920.55; — Griffith and Henfrey: "Micrographic dictionary," *3883.51; — Groenland, etc., 5924.50; — Hager, 3929.74; — Hannover, 5924.21; — Hogg (6th ed., 1867), 3920.53; — Houghton, 5929a.6; — Latteux, 3927.68; — Martin: "Microscopic mounting," 3925.59; — Merkel, 3917.50.14; — Notcutt, 5929a.4; — Pelletan (in French), 3924.63; — Perty (in German), *5914.50.9; — Phin, 5929a.24; — Queckett (2d ed., 1852), 3920.49; 5926.17; — Robin: "Traité du microscope," 7921.27; — Somerville, 5926.15; — Suffolk: "Spectrum analysis applied to microscopical observations," 3926.65; "Microscopical manipulation," 7929.4; — Wood: "Common objects of the microscope," 5929a.23; — Woodward, 3920.51; — Wythe: "The microscopist" (4th ed., 1880), 3923.61.

Periodicals. — "American journal of microscopy and popular science," *5926.60; — "American quarterly microscopical journal," *5876.50; — Microscopical society, London, Quarterly journal and Transactions, *5878.1; — "Monthly microscopical journal," *7875.1; — "Quarterly journal of microscopical science," 5878.1.

Books on Microscopic anatomy may be found in the Bates Hall Card catalogue, under the heading Histology.

Millar, J. W. Studies in physical science ... 1142.20
Miller, Elizabeth S. In the kitchen. [Receipts] 1185.5
Miller, Florence F. Physiology for the young. 1172.17
Miller, Olive T. (*Olive Thorne.*) Little folks in feathers and fur and others in neither 171.4
Queer pets at Marcy's. [Stories of animals]. 171.13
Miller, R. K. The romance of astronomy ... 1144.3
Millers', merchants', and farmers' ready reckoner. With the approximate values of millstones and millwork, etc. 1149.2
Mills, J. D. The art of money making 1137.6
Mind and mental science. Granville, J. M. Common mind troubles 1174.29
Lindsay, W. L. Mind in the lower animals in health and disease. 2 v. 1171.9
Mivart, St. G. Lessons from nature, as manifested in mind and matter 1129.16

See also Brain, Phrenology.

See also this heading in the Bates Hall Card catalogue, and the notes on books upon this and kindred subjects in the Bulletins, from number 39 to 52.

Mineralogy. Collins, J. H. The first book of mineralogy 1167.9
Jones, W. The treasures of the earth; or, mines, minerals, and metals 167.3
Ramsay, A., *jr.* The rudiments of mineralogy 1149.9

See also Geology, Metallurgy, Natural history.

The following works, many of which are recent and elementary, are selected from the titles in the Bates Hall Card catalogue: — Bauerman: "Text-book of systematic mineralogy," 1881, 5918.73; — Bristow: "Glossary," 5835.1; — Brush (2d ed., 1877), 3863.57; — Collins, 3868.77; — Cordier: "Description des roches," 5868.21; — E. S. Dana: "Text-book," 3863.53; — J. D. Dana: "Manual" (3d ed., 1878), 5868.57; "System," 5860a.20; — Delafosse: "Progrès de la minéralogie," *6640.37; — Dezallier d'Argenville: "La lithologie," *3871.33; — Dufrénoy: "Traité," 3865.4; — Egleston, 3865.64; — Grimm: "Die Lagerstätten der nutzbaren Mineralien," 7862.5; — Héron de Villefosse: "De la richesse minérale," *3862.2; Atlas, *38.J.1; — Hoffmann: "Handbuch," 5860.26; — Hooker: "Science for the school and family," vol. 3, 3968.52; — Kinahan, 3868.12; — Klaproth: "Beiträge zur chemischen Kenntniss der Mineralkörper," 7868.7; — Von Kurr, 7862.10; — Liebig: "Jahresbericht," 3985.1; — Naumann: "Elemente," 3865.1; — Pisani, 3868.8; — Portes: "Manuel de minéralogie," 3869.62; — Quenstedt: "Handbuch," 5860a.23; — Reynaud: "Histoire élémentaire," 5868.31; — Romé de Lisle: "Des caractères extérieurs des minéraux," 5799.73; — Senft: "Lehrbuch," 7864.4; — Simonin: "Les pierres," *7862.15; — Weisbach (Eng. transl.), 7869.18; — With: "L'écorce terrestre," 3862.55; — Zirkel, *5914.50.6; — also see the headings Blowpipe, Crystallography, Geology, Metallurgy, Natural history, the names of the different minerals, and the names of countries, division "Mineralogy."

Mines and mining. Half hours underground. Volcanoes, mines, and caves 1147.13
Jones, W. The treasures of the earth; or, mines, minerals and metals 167.3
Smyth, W. W. Metallic mining and collieries 1192.1.2
Ure, A. A dictionary of arts, manufactures and mines. 3 v. ..... R.R., D.17

See also among works in the Bates Hall the following: — André, *3861.60; — Beau: "Atlas," *38.C.1; — Budge (trigono

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Mines and mining, *continued.*

metrical tables), 3925.21; — Burat: "Cours d'exploitation des mines," *7863.17; Atlas, *7860.18; — Callon: "Lectures at the School of mines," *3861.57; — Chevallier: "De la propriété des mines," 3667.13; — Collier: "Law relating to mines," 1853, 3665.16; — Davies, 3868.81; — Devillez: "Ventilation," 3863.20; — Hartmann: "Vademecum," 3 v., 5869.50; — Hartwig: "The subterranean world," 3866.50; — Hopton: "A conversation on mines" (5th ed., 1873), 3868.64; — Hoskold (valuation of mines), *8036.5; — Leo: "Lehrbuch," 7864.12; — Lottner: "Leitfaden zur Bergbaukunde" (2te Aufl., 1873), 3863.24; — Malherbe: "De la cartographie minière," 3863.23; — Morgans: "Manual of mining tools," *3869.52; Atlas, *3861.51; — Raymond (Pacific states of the U.S.), 3865.58; 7863.4; 7863.18; — Sarran: "Geomètre souterrain," 5924 3; — Silversmith: "Practical hand-book," 5869.55; — Simonin: "Underground life," 7861.3; (in French, 5868.13).

Periodicals. — American institute of mining engineers: Transactions, *7866.50; — "Annales des mines," *3347.2; "Partie administrative," 1795–1881, *3377.50; — "Annuaire des mines et de la métallurgie françaises," 1876–80, *3863.51; — "Berg- und Huettenmaennische Zeitung," *7872.1; — "Revue universelle des mines," *5860a.50; — also see the headings Accidents in mines, Hydraulic mining, Gold mines, Lead mines, Metallurgy, etc.; and the names of countries, division "Mines and mining."

Minor arts, The. Leland, C. G. 1204.18
Mirella. Opera. Gounod, C. F. 1201.1
Mirror, The, of true womanhood. O'Reilly, B. 1121.5
Miss Tiller's vegetable garden and the money she made by it. Warner, A. 1159.21
Missionary, The, in many lands. House, E. 2109.32
Mitchell, E. Five thousand a year; and how I made it in five years' time, starting without capital 1137.8
Mitchell, S. W. Fat and blood: and how to make them 1156.18
Nurse and patient, and Camp cure 1159.47
Mitchell, T. The stepping-stone to architecture 1209.27
Mivart, St. G. The common frog 1148.18
Contemporary evolution. An essay on some recent social changes 1177.32
Lessons from nature, as manifested in mind and matter 1129.16
Mocking bird, The. A variety of music. Perkins, W. O. 1209.23
Modern etiquette, in private and public 1129.31
Modern out-door amusements 186.14
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Modern playmate, The. Wood, J. G. 1189.22
Modern society. Howe, J. W. 130.6
Modern sphinx, The: a collection of enigmas, charades, rebuses, etc. 1185.1
Mollison, J. R. The new practical window gardener 1164.16
Mollusca, A manual of the. Woodward, S. P. 1179.24

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Monckhoven, D. van. A popular treatise on photography 187.10
Moncrieff, R. H. (*A. R. Hope.*) A book about boys 1126.29; 1126.31
A book about dominies 1126.32
Money. Bulwer-Lytton, E. G. E. L., *lord Lytton.* On the management of money .. 1134.5
Eggleston, G. C. How to make a living. Suggestions upon the art of making, saving, and using money 128.11
Mills, J. D. The art of money making 1137.6
Playford, S. Practical hints for investing money 1149.3

See the Bates Hall Card catalogue.

Mongredien, A. History of the free-trade movement in England 1139.20
Monkeys, Parrots and 1154.5

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Monsters, The, of the deep. Adams, W. H. D. 1176.19
Montez, Lola. *See* Lola Montez.
Moody, D. L. Great joy. Comprising sermons and prayer-meeting talks. Delivered at the Chicago tabernacle 1114.7
Clark, R. W. The work of God in Great Britain, under Moody and Sankey, 1873 to 1875 ..... 2107.32
Daniels, W. H. D. L. Moody and his work. 2102.13
Hall, J., and Stuart, G. H. The American evangelists in Great Britain and Ireland. 2107.31
Nason, E. The American evangelists, with an account of their work 2102.16
Moon, Wonders of the. Guillemin, A. 148.22

Recent books, mostly popular and illustrated, in the Bates Hall: — Nasmyth and Carpenter: "The moon: considered as a planet, a world, and a satellite," 3921.58; — Nelson: "The moon and the condition and configurations of its surface," 3924.62; — Newcomb: "Researches at the United States naval observatory," *3921.67; — Proctor: "The moon: her motions, aspect, scenery, and physical condition," 3929.71; — Rutherford (photographs and charts), *7920.15; — and other works under the headings Astronomy and Moon.

Moore, Annie, and **Nichols,** Laura D. Overhead; or, what Harry and Nelly discovered in the heavens 1161.5
Moore, Blanche. Cookery for the times 1182.4
Moore, Clara J., *compiler.* Sensible etiquette of the best society, customs, manners, morals, and home culture. Compiled by Mrs. H. O. Ward [*pseud.*] 1123.5
Moore, R. The artizans' guide and everybody's assistant: receipts and tables. 1873. 1207.7
Same. [New ed.] 1875 ..... 1209.29
More, Hannah, and others. Favourite narratives for the Christian household 2104.22

Contents. — The shepherd of Salisbury plain, by H. More; — The dairyman's daughter, by L. Richmond; — 'Tis all for the best, by H. More; — Voyages and travels of a Bible, by J. Campbell; — Jonathan Brown; — The raven's feather; — Memoir of Eliza Cunningham; — Poor Sarah.

Mormonism. Young, A. E. Wife No. 19, or the story of a life in bondage, a complete exposé of Mormonism 1112.2
Morris, F. O. Anecdotes in natural history .. 1175.6
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In the Bates Hall, by the same author: "Dogs and their doings," 6004.19; — History of British birds," 5901.4; — "Natural history of the nests and eggs of British birds," 5901.9.

Morse, E. S. First book of zoölogy 1175.19

There are other works by this author in the Bates Hall.

Mortimer, *Mrs.* Kings of Israel and Judah: their history explained to children 1117.4
Mother's, The, hygienic hand-book. Trall, R. T. 1156.4
Motives of life. Swing, D. 1114.13
Mountain, The history of a. Reclus, É. 1144.14
Mueller, Max. Chips from a German workshop. 4 v. 2097.28

Contents. — Vol. 1. Essays on the science of religion. 2. Essays on mythology, traditions, and customs. 3. Essays on literature, biography, and antiquities. 4. Essays chiefly on the science of language.

Lectures on the science of religion; with a paper on Buddhist nihilism, and a translation of the Dhammapada or "Path of virtue" 2096.21
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Murray, A. S. Mythology. Illustrated chiefly from the myths and legends of Greece ... 2087.10

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Murray, W. H. H. Park-street pulpit: sermons. 2 v. 2098.28
The perfect horse. With a treatise on agriculture and the horse by G. B. Loring ... 1174.3
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Music. Blaserna, P. The theory of sound in its relation to music 1207.16
Cook, J. Sound and the physical basis of music 1207.22
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Collections.

Bird, J. and H. The singing school companion: a collection of secular and sacred music..... 1206.9
Dressler, W., *compiler*. The singing festival, a collection of popular glees, trios, quartets, and choruses, for male voices..... 1206.2
The musical treasure. A collection of vocal and instrumental music, for the piano-forte or reed-organ, etc. 201.27
Pease, F. H. The crystal: containing songs [etc.] 1207.17
Perkins, W. O. The mocking bird.....1209.23
The world of song: popular songs, ballads, and duets, with an accompaniment for the piano-forte or reed organ, etc. 201.28

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Consult the cards in the Bates Hall Card catalogue under Music. The literature of the subject, with references to books in this Library, can be found in Bulletin No. 36, January, 1876, pp. 34–37.

Music at home..... 201.26
Musical treasure, The. A collection of vocal and instrumental music, for the piano-forte or reed organ, etc. 201.27
Musical instruments. Rimbault, E. F.....1192.1.11

See also Banjo, Piano-forte, Violin.

Examine this heading in the Bates Hall Card catalogue, also the names of various instruments, as Piano-forte, Violin.

Mystery, The, of pain: a book for the sorrowful. Hinton, J. 119.16
Mythology. Fiske, J. Myths and myth-makers 1087.30
Mueller, M. Essays on mythology 2097.28.2
Murray, A. S. Mythology. Illustrated chiefly from the myths and legends of Greece 2087.10
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See Smith's "Dictionary of Greek and Roman biography and mythology," at the Bates Hall Desk; also, in the Bates Hall Card catalogue, among other works: — Baring-Gould: "Curious myths of the middle ages," 2295.9; 2295.11; 6298.1; — Brinton (America), 5488.32; — Clodd: "The childhood of religions," 3488.86; — Cox: "The mythology of the Aryan nations," 5486 9; "Manual," 5489a.14; — Gubernatis: "Zoological mythology," 3485.54; — Kurts, 5488.33; — Ménard (823 illustrations), 3481.51; — Preller (ed. of 1865), 3486.58; — Schultze (Hebrew mythology), 5487.57; — Seeman, 3487.80; — White, 5489.85; — also the headings Fine arts, Middle ages, Religions, and the division "Mythology" under the names of countries.

Nails. Aitken, W. C.....1192.1.3
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See also Animals, Birds, Botany, Chemistry, Comparative anatomy, Domestic animals, Earth, Geology, Insects, Meteorology, Mineralogy, Mines and mining, Nature, Ornithology, Physical geography, Sea, Zoology; also, in the Bates Hall Card catalogue, under the heading Natural history, under the names of countries, division "Natural history," and under the names of the different departments of natural history of which a list is given under the heading Natural history.

Natural philosophy. *See* Physics.
Nature. Dawson, J. W. Nature and the Bible 1128.16
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Naval art and science. King, J. W. The war-ships and navies of the world. 1880. 192.2
MacDougall, N. Simple and compound engines, as applied to ships of war..... 190.27

A selection from works in the Bates Hall Card catalogue: — Barnard: "Sea-coast defence," 7955.17; — Bedford: "The sailor's pocket book" (3d ed., 1877), 3958.74; — Bouët-Willaumez: "Batailles de terre et de mer" (with 70 plates), 3955.52; — Burn (Naval, etc., French and English dictionary, 5th ed., 1870), *2689.78; — Chadwick: "Report on training systems," 3956.15; — Elwes: "Ocean and her rulers," 3958.77; — Prince de Joinville: "Études" (2 v.), 5958.13; — Jurien de la Gravière: "La marine des anciens" (2 v.), 3959.76; — "La marine à l'exposition universelle de 1878" (3 v.), *8023.60; — "Naval encyclopædia," (1024 pp., pub. in 1881), *3952.62; — Paris: "L'art naval à l'exposition universelle de Paris en 1867" (2 v.), *8024.20; Atlas, *8020.8; — Parker: "The fleets of the world. The galley period," 3956.7; — Rénard: "Les merveilles de l'art naval," 5958.29; — Spon's "Dictionary" (3 v.), *8037.6; —

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Naval art and science, *continued.*

"War ships of the royal navy" (colored illustrations), 3952.57; — Very: "Navies of the world," 3954.75.

Periodicals. — "Nautical magazine," *5408.1; — "Revue maritime et coloniale," *6690a.1; — "United States army and navy journal," *6960.50; etc.

See also the division "Army and navy" under the names of countries. The Literary world for February 12, 1881, *5341.3.12, contains a list of sea stories in the English language, with descriptive notes.

Navigation. Brady, W. N. The kedge-anchor: or, young sailors' assistant..... 194.6
Evers, H. Theory and practice of navigation 1169.67
Goodrich, F. B., and Howland, E. Ocean's story: rise and progress of ocean navigation [etc.]. 1873..... 1161.3

The following are selected from the list of works in the Bates Hall catalogue:—Burney: "The young seaman's manual," 3958.73; — Chapman: "All about ships," 3956.4; — Chauvenet: "Navigation and nautical astronomy," 5918.40; — R. H. Dana, jr.: "The seaman's friend" (10th ed., 1863), 5956.10; — Elwes: "Ocean and her rulers," 3958.77; — Evers: "Navigation," 3958.56; — Hopkins: "The port of refuge . . . in situations of danger," 3959.60; — Keith, 5956.2; — Ledieu: "Les nouvelles méthodes de navigation," **5012.52; — "Luce: "Seamanship," 3952.44; 3956.11; — Napier, 3954.60; — Nares, 3952.26; — "Nautical magazine," *5408.1; — Pagel: "Cours de navigation," 3954.61; — Piddington: "The sailor's horn-book for the law of storms," 5963.4; — Raper (11th ed., 1874), 5952.52; — Read (ed. of 1879), 3954.66; — Robinson, 5955.5; — Shadwell: "Tables for facilitating the determination of latitude and time," 5955.58; — James Smith: "Ships and navigation of the ancients," 5476.4; — Thoms (8th ed., 1867), 5952.30; — Villarceau and Aved de Magnac: "Nouvelle navigation astronomique," 3951.63.

See also Great Britain, *Admiralty;* United States, *Navy department;* and the headings Compass, Harbors, Latitude, Longitude, Pilotage, Sailing charts, Signals, Steam navigation, etc.

Navigators.

In Bates Hall: — Bourne: "English seamen under the Tudors," 4516.3; — Campbell: "British admirals," 2450.11; — Guérin: "Les navigateurs français," 2263.65; — Higginson: "American explorers," 2329a.54; — Jurien de la Gravière: "Les marins du xve et xvie siècles," 2268.71; — Liefde: "The great Dutch admirals," 2849.55; — Marshall: "Royal naval biography," 2250.12; — Verne: "The great navigators of the 18th century," 2265.66; see also the Hakluyt Society Publications; also under Biography, and this division under the names of countries.

Arctic expeditions. See Smith: "Arctic expeditions, to 1875–76," 2260.58; — "Recent polar voyages," 2268.60, and under the heading Arctic in Bates Hall catalogue; also under Hayes, Kane, Nordenskiöld, Polaris, etc.

Neale, J. M. Victories of the saints. Stories from church history.....1119.22
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In Bates Hall: — Beeton, 6009.36; — Frost, 6004.27; — Goubaud: "Berlin work," 6009a.30; "Guipure d'art," 6008.6; "Crochet instructions," 6009a.30; "Embroidery," 6009a.30; — Lockwood and Glaister, 4000.5; — Stephens, 6009a.48; — "The Englishwoman's domestic magazine," *5380a.1; — see also Embroidery.

Nerves, Lectures on the. Brown-Séquard, C. E. 1151.2

Consult the Bates Hall Card catalogue under the heading Nervous system.

Newcomb, S. The A B C of finance; or, the money and labor questions explained 1139.18
Popular astronomy..... 1151.4

In Bates Hall, by Newcomb and E. S. Holden: "Astronomy for schools and colleges," 3929.72.

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New England. Flagg, W. The birds and seasons of New England.....1175.16
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New Jerusalem, The church of the, a new dispensation of divine truth. Giles, C. No. 3 in 2109.30
Newman, J. H. Apologia pro vita sua: a reply to a pamphlet entitled "What, then, does Mr. Newman mean?" 2103.16
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Examine the cards in the Bates Hall catalogue under Denmark, Iceland, Normandy, Normans, Northmen, Scandinavia, and Sweden.

Northcott, W. H. Lathes and turning 190.30
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In the Bates Hall: "Handbook of nursing," 3767.85; — "How I was nursed," 5779a.8; — Lees, 3768.60; — "Plain directions," 3768.15; — H. Smith, 5779a.20; — Storer, 3779.33; — Weatherly, 5769.84; etc.

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Organic chemistry. Watts, W. M. 1159.24
Oriental religions. India. Johnson, S. 2091.3

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Packard, A. S., *jr.* Half hours with insects. 1174.9
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There are in the Bates Hall by the same author: — "Guide to the study of insects" (3d ed., 1872), 5892.12; — "Life histories of animals," 3885.59; — "Our common insects," 3899.50; — "Zoology," 3888.64; etc.

Packard, J. H. Sea-air and sea-bathing 1174.33
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Page, D. P. Theory and practice of teaching. 138.28
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Painter's, A, camp. Hamerton, P. G. 1654.3
Painters' manual, The. [Added, The practical paper hanger, by T. Linn] 1209.28
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Books on painters and painting are described in the Lower Hall Catalogue of history, etc., p. 207.

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Parliamentary practice. Cushing, L. S. Manual of parliamentary practice. 1845 ..1138.11
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Patent law. Johnson, J. and J. H. The patentee's manual; a treatise on the law and practice of letters patent 190.24

A list of books in this Library on patents can be found in the "Handbook for readers."

Pathology. Richardson, B. W. Diseases of modern life.....1156.14

See also Children, Consumption, Ear, Health and hygiene, Skin, Surgery; and titles in the Bates Hall Card catalogue.

Patience: a series of thirty games with cards. Cheney, E. D.....1198.17
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Sermons for children.....2104.20
Pease, F. H. The crystal: containing songs [etc.], for the use of musical associations, the social circle, and the singing school ..1207.17
Pebbles, About. Hyatt, A. .....No. 1 in 1168.11
Peck, N. F. How to make candy..... 1184.6
Pellegrin, V. Theory and practice of linear perspective.....1209.34
Pellico, S. The duties of young men.....1114.10
Pendragon, *pseud.* *See* Sampson, H.
Penmanship. Comer, G. N. Penmanship made easy..... 1134.3
Hill, T. E. Hill's manual of social and business forms 131.3

In the Bates Hall:—Dunton and Chapman, *6111.24;—Gaskell, 6116.3;—Payson, Dunton, and Scribner, 6118.15;—Williams and Packard, *6118.6; *6111.25;—and other works under the heading Writing.

Pens and papier-mâché. Lindsey, G. 1192.1.3
Pens and types. Drew, B. 1137.22
People from the other world. Olcott, H. S. 1127.8
Percussion-caps. *See* Ammunition.
Percy, *Grandfather*, *pseud.* The homes of the birds; or, nests and their builders... 1178.6
Perkins, H. S. The song echo: a collection of songs, duets, trios [etc.].....1209.24
Perkins, W. O. The mocking bird. A complete elementary course, and a variety of music.....1209.23

Shelf. No.

Perpetual existence. Fox, J. .....No. 4 in 2109.30
Perry, J. An elementary treatise on steam..1197.15
Personal appearances in health and disease. Coupland, S. 1174.19; 1174.20
Perspective drawing. Kruesi, H. Drawing. Perspective series. No. 1–3.....1209.32
Kruesi, H. Hand-book of perspective drawing. Drawing series—Part 3..... 1204.7
Same. Part 4..... 1204.8
Pellegrin, V. Theory and practice of linear perspective.....1209.34
Thompson, A. Principles of perspective.. 191.9

In the Bates Hall:—*In English.*—Burchett, 4078.54; 4078.70;—Collins, 8069.5;—Davidson, 4079.3;—Dennis, 4068.29;—Jopling, 4067.40;—Penley, 8068.7; 8068.36;—Ropes, 4077.13; 8065.5;—Ruskin, 2579a.56;—Walter Smith, 4068.32;—Thénot, 4075.11;—Tyrwhitt, *4068.8;—Varley, 4081.15;—Warren, 4075.13.
In French.—Bailby, 4073.58;—Cassagne, 8065.61;—Maertens (in German), 8060.53;—Monge, 3920.13;—Olivier, **5010a.50;—Pequégnot, *8060.51;—Wolff (in German), 3926.64, Atlas, *3921.57;—Zanotti (in Italian), *2807.55.

Peter, *St.*, *the apostle*. Macduff, J. R. The footsteps of St. Peter.....2102.15
Taylor, W. M. Peter the apostle.....1117.18
Petruccelli della Gattina, F. Popery exposed 2102.7
Pharmacopœia. Wood, G. B., and Bache, F. The dispensatory of the United States. 12th ed. 161.2
Phelps, Elizabeth S. What to wear?..... 1128.8
Phillips, J. A. Copper smelting.....1192.1.1
Philosophy. Carr, J. A synopsis of practical philosophy..... 1141.6
Lewes, G. H. History of philosophy from Thales to Comte. 2 v. 1221.3

For a list and description of works on Philosophy, see the notes in the Bulletins No. 39–52.

Philp, R. K. The lady's every-day book.... 1182.5
The reason why—natural history.....1164.24
The reason why—physical geography and geology 1164.17
Phonetics and phonography. Graham, A. J. The hand-book of standard or American phonography 1129.19
Munson, J. E. The complete phonographer. 128.12
The dictionary of practical phonography.1123.12
The phrase-book of practical phonography.1123.14
Pitman, B. The reporter's companion..... 120.3
Pitman, I. A manual of phonography.....1129.15

See also Stenography.

There are the titles of many other works on this subject in the Bates Hall Card catalogue.

Phonograph, The. Du Moncel, T. A. L., *comte* 1197.14

In the Bates Hall:—"All about the telephone and phonograph," 5969a.16;—Garbit, 3918.54.2;—Niaudet, 3966.67;—Prescott, 3966.62;—Tegg, 3647.61; 3969.78.

Photography. Abney, W. de W. A treatise on photography.....1165.25
Foster, P. Le N. Photography.....1192.1.8
Liesegang, P. E. Carbon process in photography 1142.19
Monckhoven, D. van. A popular treatise on photography..... 187.10
Vogel, H. The chemistry of photography..1149.17

See articles on photography in The popular recreator, 181.3.

In the Bates Hall:—Ayres: "How to paint photographs," 8068.24; 8068.42;—Buehler: "Atelier und Apparat des Photographen," Text and Atlas, 3971.52;—Burrows and Colton: "Concise instructions," 3976.63;—Davanne: "Les progrès de la photographie," 3974.52;—Dumoulin: "Les couleurs reproduites en photographie," 3979.66;—Eder: "Wirkungen des farbigen Lichtes und die Photographie in natürlichen Farben," 3923.59;—Geymet: "Éléments," 3978.68;—Girard: "La photographie appliquée aux études géographiques," 8028.6;—Great Britain, *Com'r of patents:* "Abridgments of specifications" (in Patent Room);—Hannot: "Éléments," 3972.54;—Hardwich, 3977.21;—Heighway, 5979a.25;—Hunt: "Manual," 5978.18;—Hunt:

Shelf. No.

Photography, *continued.*

"Practice," 3978.60; — La Blanchère: "Répertoire encyclopédique," 4024.16; — La Sor et Texier: "Traité," 4024.9; — Latreille: "Manuel simplifié," 4024.10; — Lea, 7973.6; — Legros: "Encyclopédie," 4024.4; — Lerebours: "Traité," 4024.2; — Liébert: "La photographie en Amérique," 3976.59; — Mayer and Pierson, 5979.34; — Meteyard (history), 2545.51; — Poitevin: "Impressin sans sels d'argent," 5974.11; — Robinson: "Pictorial effect," *8063.13; — Stillman: "Amateur's guide book," 3978.57; — Tissandier, 3978.67; — Towler, 5979.7; — Trutat: "La photographie appliquée à l'archéologie," 3979.74; — Vidal: "Annales," 3979.76; — Wheeler (for amateurs), 5979.69; etc.

Periodicals. — "Annuaire photographique," *7979a.6; — Journal of the London photographic society, *4024.1; — "Philadelphia photographer," *7972.1; — "Photographic news," 6973.1; — "Photographic times," *5970a.1; — "Photographic world," *7970a.1. See also Daguerreotype.

Photolithography.

In the Bates Hall: — Fortier: "La photolithographie," 4029.63; — Geymet: "Photolithographie," 4029.62; — Lallemand: "Nouveaux procédés d'impression," 4029.61; — Maes and Hannot: "Reproduction des cartes," 7924.15, Atlas, 7920.7. See also Heliotype.

Phrenology. Capen, N. Reminiscences of Spurzheim and Combe: and a review of phrenology 124.27
Weaver, G. S. Lectures on mental science according to the philosophy of phrenology. 128.3

Physical geography. Geikie, A. Elementary lessons in physical geography 1146.5
Geikie, A. Physical geography 1167.14
Macturk, J. Physical geography 1167.10
Philp, R. K. The reason why — physical geography and geology 1164.17

See also Earth, Geology, Meteorology, Physics, Sea, Volcanoes.

In the Bates Hall: — Ansted, 7864.25; — Cooley, 3825.64; — Cornell (school book), 5811.3; — Findlater: "Elementary," 3828.72; — Guyot: "Earth and man," 6238.23; "Geographical series," 3820.52; — Haughton, 3826.54; — Herschel, 3877.15; — Humboldt: "Kosmos" (several editions); — Huxley: "Physiography," 3969.72; 3969.74; — Johnston: "Atlas of natural phenomena," 3820.12; — Lawson, *3829.78; — Mackay, 3828.74; — G. P. Marsh: "The earth as modified by human action," 5822.16; — Page: "Advanced text-book," 7869.10; — Mary Somerville (6th ed., 1870), 5827.3; — Skertchley, 3969.76; — Warren (elementary), 5821.7; etc.; see also in the Bates Hall Card catalogue under Atmosphere, Climate, Earth, Earthquakes, Geography, Geology, Glaciers, Gulf stream, Lakes, Meteorology, Mountains, Nature, Physics, Rivers, Sea, Volcanoes, etc.; also the division "Geology and palæontology," under the names of countries.

Physical science, Studies in. Millar, J. W. 1142.20

Physics. Bagehot, W. Physics and politics. 1132.7
Everett, J. D. Elementary text-book of physics 1142.18
Ganot, A. Natural philosophy for general readers and young persons 148.42
Maxwell, J. C. Matter and motion 1158.32
Stewart, B. Physics 149.31

See also Astronomy, Electricity, Heat, Magnetism, Mechanics, Meteorology, Optics, Physical geography, Sound.

The following works, recent and largely elementary, are selected from titles in the Bates Hall: — Arnott (7th ed., 1877), 3967.60; — Biot: "Précis élémentaire," 5968.1; — Biot: "Traité," 3963.18; — Boutain and Almeida: "Cours élémentaire," 5947.8; — Buckmaster, 5948.2; — Buignet: "Manipulations de physique," 3964.58; — Cabiac: "Cours élémentaire," 3969.53; — Cazin: "Les forces physiques," 5978.9; — Chaillot: "Leçons élémentaires," 3969.56; — Challis: "Application of mathematical principles," 7921.22; — Cooley: "Easy experiments," 3969.85; — Faraday, 5978.5; — Focillon: "Cours élémentaire," 3969.55; — Ganot: "Cours de physique" (4e éd., 1868), 5968.12; — Ganot: "Elementary treatise" (9th ed., 1879), 3966.71; (in French), 5969.58; — H. Gossin: "Notions préliminaires," 3969.51; — L. Gossin: "Éléments," 3969.54; — Graham, 3972.55; — Grove (6th ed., 1874), 3965.67; — Guillemin: "The applications of physical forces," 3962.57; "The forces of nature," 3962.51; — Guthrie, 3969.79; — Hoefer, 3979.52; — Houston: "Elements," 3967.62; — Hunt: "Elementary physics," 5968.25; — Karsten and Weyer: "Einleitung," *5943.1.1; — Lardner, 5969.16; — "Lectures, published by the com'rs of national education in Ireland," 5965.19; — Lloyd, 3964.64; — Marcet: "Conversations" (14th ed., 1872), 5868.50; — Marié-Davy: "Notions préliminaires," 3969.52; — Mathieu: "Cours," 3961.52; — Mueller: "Lehrbuch" (7te Aufl., 1868, 2 v.), 3967.50; — Norton: "Elements," 5967.17; — Pepper: "Cyclopædic science simplified," *3937.51; — Pichot and Lechat: "Cours de physique," 3966.51; — E. C. Pickering, *3966.59; — Privat-Deschanel: "Elementary treatise" (4 v.), 3967.52; (in French), 5962.13; — Quackenbos, 5948.37; — Reclus: "The earth," 3829.62; — Rolfe and Gillet, 7965.2 and 3; — Rossiter: "Elementary handbook," 5968.11; — Steele: "Fourteen weeks course," 5969.6; 3969.84; — Balfour Stewart: "Lessons in elementary physics," 3968.69; — Tait, 3968.75; 3969.63; — Sir W. Thomson and Tait, 5942.15; — Todhunter: "Natural philosophy for beginners," 5969a.8; — Vacca: "Physique générale et appliquée," 3967.54; — Weinhold: "Introduction to experimental physics," 3965.70; (in German), 3964.67; — D. A. Wells: "Familiar science," 5914.6; "Science of common things," 5969.11; "Natural philosophy" (ed. of 1880), 3968.82; — Wuellner: "Lehrbuch," 5962.18; "Annalen der Physik, herausg. von Gilbert und Poggendorff," *3918.1; "Journal de physique," *5962.50; "Journal der Physik," and "Neues Journal der Physik" (Gren's), *3918.1 and 2.

See also Acoustics, Astronomy, Attraction, Barometer, Chemistry, Electricity, Fluids, Galvanism, Gravitation, Heat, Hydraulics, Hydrostatics, Magnetism, Mechanics, Meteorology, Optics, Physical geography, Pneumatics, Sound, Themometer, etc.

Physiology. Dalton, J. C. A treatise on human physiology 161.3
Foster, M. Physiology 1156.5
Hinton, J. Physiology for practical use ... 1155.14
Lawson, H. A manual of popular physiology 1155.10
Lowe, A. T. Fragments of physiology 1156.17
MacKendrick, J. G. Animal physiology ... 1177.33
Mapother, E. D. Animal physiology 177.45
Martin, H. N. The human body 140.1
Miller, F. F. Physiology for the young ... 1172.17
Steele, J. D. Fourteen weeks in human physiology 1171.5

See also Brain, Comparative anatomy, Ear, Medicine, Pathology, Teeth, Vegetable physiology.

The following recently published, and, for the most part, elementary works, are selected from the titles in the Bates Hall Card catalogue: — Bernard: "Physiologie générale," 3766.52; "Leçons," 3764.65; "La science expérimentale," 3767.79; — Bert: "Leçons à la Sorbonne," 3884.50; — Brodie, 5766.51; — Bruecke: "Vorlesungen" (2 v.), 3765.67; — Buckton (lectures to the wives and children of working men), 3768.75; — Budge: "Lehrbuch," 3765.59; — Carpenter: "Principles" (ed. of 1876), 3766.62; — Cleland, 3768.54; — Dalton (6th ed., 1875), 3762.52; — Draper, 3742.12; 3763.16; 7760a.1; — Dunglison (ed. of 1880), 5769.31; — Milne Edwards and Comte, 5769a.3; (French ed.), *5886.1; — Figuier, 3764.64; — Flint: "Physiology of man" (5 v.), 3763.18; "Text-book," *3762.53; — Foster, 3764.70; — Goubert, 3766.82; — Hermann: "Grundriss," 3763.59; — Hinton, 3768.59; — Hooker, 5769a 6; — Hutchinson, 3769.79; — Huxley, 3769.48; — Kirkes, 3768.89; (in French), 3769.61; — Kirkes and Paget, 5769.23; — Kuess, 3768.65; — Le Pelletier de la Sarthe: "Traite complet," 3766.63; — Le Pileur: "Wonders of the human body," 7767.21; — Longet: "Traité," *5762.4; — Ludwig: "Lehrbuch," 3767.53; — MacKendrick, 3767.81; — Mapother, 5769a.24; — Marshall, 5762.24; 5760a.32; — Martin, 5765.14; — Martindale, 3767.80; — Florence F. Miller: "The house of life," 3767.82; — Moilin: "Leçons," 5763.14; — Mueller, "Elements," 3762.6; — Nichols, 3569.66; — Paterson, 5769.25; — Reclam: "Der Leib des Menschen," 3768.53; — Roget (ed. of 1867), 5769a.1; — Sanderson: "Handbook" (2 v.), 3765.64; "Syllabus," 3768.20; — Todd and Bowman (ed. of 1857), 7763.5; — Withowski: "Structure et fonctions," *3743.62; besides many periodicals; see also Anatomy, Medicine, Pathology, the names of the various parts of the body, and other headings referred to in the Bates Hall Card catalogue under Medicine.

Piano, The, at home: a collection of standard and popular music. Arranged for four hands 201.25

Piano-forte. The golden circle; a collection of choice piano music 201.32
Music at home 201.26
Taylor, F. Primer of piano-forte playing .. 1207.23
Tourjee, E. The New England conservatory method for the piano-forte 201.19
Wieck, J. G. F. Piano and song: how to teach, how to learn [etc.] 1206.1
Winner, Sep., *pseud.?* Strauss dance music for the piano 206.27

In the Bates Hall are the following Instruction books: — Bertini, 8051.1; 8051.12; 8051.13; — Beyer, 8050.59; 8051.17; — Blake, 8051.46; — Burrowes: "Primer," 8046.55; — Cramer, 8051.14; 8050.58; — Czerny: "Exercises in velocity," 8051.18; "Method," 8041.21; — Diabelli, 8050.60; — Eichberg, 8051.37; — Graupner, 8041.58; — Hünten, 8051.15; — La Motte, 8043.26; *8052.9; — Lebert and Stark (in German, 4 v.), *8050.55; — Le Couppey (in French), 8046.9; — Löhlein (in German), 4056.11; — Manns

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Piano-forte, *continued.*

8041.56; — Marmontel: "Art classique," 4048.77; — Mason and Hoadley, *8051.11; — Mason and Mathews, 8050a.69; — Mueller, 8051.10; — Paige, 8050.7; — Pauer, 8050a.76; — Petersilea, *8050.19; 8041.59; — Plaidy, 8051.29; — Reinecke, 8050a.53; — Richardson, 8051.25; 8051.34; — Rimbault, 8051.31; — Robbins, 4040.51; — Schmitt, 8050.61; — White: "Piano without a master," 8051.30; — Wohlfahrt, 8040.61.

Picked up in the streets. Rowe, R. 1124.13
Pickering, Ellen. Charades for acting.....1354.10
Piers. Bland, W. Arches, piers, etc..... 1202.7
Piesse, C. H. Chemistry in the brewing-room 190.48
Pigeons. Piper, H. Pigeons; their varieties, management, breeding, and diseases.....1164.18
Wright, L. The practical pigeon keeper...1177.34

The following are in the Bates Hall: — Delamer, 4004.31; — Dixon, 3909.54; — "The dove cot," 6009a.41; — Fulton, *4002.58; — Lyell, 6007.27; — Tegetmeier, 5901.10.

Pim, B. Ship building. (*In* Bevan's British manufacturing industries).....1192.1.10
Pins. Aitken, W. C.....1192.1.3
Piper, H. Pigeons; their varieties, management, breeding, and diseases.....1164.18
Pitman, B. The reporter's companion..... 120.3
Pitman, I. A manual of phonography 1129.15

Other books by Pitman on phonography are in the Bates Hall.

Pittman, J., and others, *editors.* The songs of Scotland 202.25
Plain living and high thinking. Adams, W. H. D..... 1132.9
Plain words to children. How, W. W.....1118.23
Planché, F. D'A. Amusement without end.. 1187.8
Guess me: a curious collection of enigmas, charades, etc. 185.34
Plants. Darwin, C. The effects of cross and self-fertilisation in the vegetable kingdom. 1166.3
Darwin, C. Insectivorous plants.....1175.18
The power of movement in plants 1166.4
Hulme, F. E. Plants, their natural growth and ornamental treatment..... 170.3
Lankester, P. Talks about plants..... 1163.6
Rand, E. S., *jr.* Garden flowers. A treatise on the culture of herbaceous and bedding plants 1174.5

See also Botany, Flowers.

Playford, F. Practical hints for investing money 1149.3
Pleasonton, A. J. The influence of the blue ray of the sunlight and of the blue colour of the sky, in developing animal and vegetable life [etc.]..... 1151.3
Plumbing. Buchan, W. P..... 190.40
Plummer, J. I. Introduction to astronomy..1149.14
Plymouth church, *Brooklyn, N. Y.*, History of. Thompson, N. L..... 1082.7
Poetic fate book, The. Gilman, C. 1187.4
Poetry, The, of astronomy. Proctor, R. A.1163.10
Poisons. Dulles, C. W. What to do first, in accidents or poisoning 1174.37
Tanner, T. H. Memoranda on poisons....1159.35

In the Bates Hall: — Bandlin: "Gifte und ihre Gegengifte," 5788.6; — Bayne, *5804.6; — Bernard, *5788.4; — Boehm, *3712.53.17; — Chaussier: "Manuel des contre-poisons," 3788.11; 5789a.54; — Dragendorff (in German and French), 3784.62; 3789.69; — Duflos (in German), 3784.70; — Ferrand: "Premiers secours," 3788.69; — Galtier: "Traité," *5788.2 and 3; — Hemming, 3789.66; — Hasselt: "Handbuch," 5788.5; — Hirth: "Die Krankheiten der Arbeiter," 3763.57; — Hoh: "Gift und Kontagium," 3787.22; — Husemann: "Handbuch," 2 v., 5781.3; — Johnstone, 3728.3; — Mohr: "Chemische Toxicologie," 3785.72; — Orfila (various works); — Otto (5te Aufl., 1875), 3789.72; — "Plain directions for accidents, emergencies, and poisons," 3789.65; — Reese, 3785.60; — Tardieu and Roussin, 5787.8; — Woodman, 3793.51; *3783.50; — Wormley, *7785.5; see also Accidents, Arsenic. For a study of the subject in its legal aspects, see books on medical jurisprudence.

Poker. Rules for playing "draw poker." *See* Laws [etc.]..... 1183.3

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Polarisation of light. Spottiswoode, W. ...1148.19
Pole, W. The theory of the modern scientific game of whist 189.39
Political economy. George, H. Progress and poverty 130.8
Jevons, W. S. Political economy..... 130.1
Macleod, H. D. Economics for beginners. 1134.6
Mason, A. B., and Lalor, J. J. The primer of political economy 1139.8
Rogers, J. E. T. Social economy..129.15; 138.17
Smith, A. The wealth of nations. 2 v.... 1130.1

See also Agriculture, Banks and banking, Free trade, Labor and laboring classes.

Among recent books in the Bates Hall are: — Bagehot: "Economic studies," 3654.54; — Bastiat (several works in favor of free trade); — Baudrillart (in French), 5649a.54; 5659.3; — Blanqui: "History of political economy in Europe," 3644.68; (in French, 3647.5); — Bolles, 3568.63; — Bowen, 5655.5; — Byles: "Sophisms of free-trade," 3648.53; — Cairnes, 3648.62; 3645.57; 3645.61; — H. C. Carey (several works, in favor of protection); — Chevalier: "Cours d'économie politique," 5647.2; — Clavé: "Principes," 5659.4; — Coq (in French), 5649.37; — Cossa, 3647.74; — H. Fawcett, 3648.66; — M. G. Fawcett: "Political economy for beginners," 5648.6; — Greeley, 5645.16; — Howe, 3655.55; — Jamieson, 3659.51; — Jevons, 5645.1; — Kelley (in favor of protection), 2392.52; — Marriott, 3649.58; — Marshall, 5564.64; — J. S. Mill (ed. of 1864, 2 v.), 3654.3; — Moffat, 3644.58; — Molinari (in French), 3654.55; 3640.36; — Newman, 3640.32; — Bonamy Price, 3647.56; — Rau: "Lehrbuch," 5561.58; — Rogers, 5649.1; — Rondelet: "L'économie politique dans la vie pratique," No. 6 in 6679a.24; — Roscher (2 v.), 3644.61; (in German, 2 v.), 3655.60; — Rozy: "Traité élémentaire," 3649.69; — Ruskin (various writings); — Say (several works); — Seyd: "The decline of prosperity," 3650.17; — Shadwell, 3649.83; 3653.71; — Adam Smith (ed. of 1869, 2 v.), 5647.26; — Sturtevant, 3647.54; — Syme, 3567.71; — Thompson, 3568.68; — Amasa Walker, 3640.8; — Wilson, 3649.65; — see also Banks, Capital and labor, Charities, Co-operation, Credit, Currency, Finance, Free trade, Labor and laboring classes, Land tenure, Manufactures, Money, Poor, Population, Property, Protection, Rent, Social science, Statistics, Taxation, Trade, Wages, Wealth, etc., also the division "Political economy" under the names of countries.

Prof. W. G. Sumner, of Yale college, has prepared a selected list of books on political economy and political science, with notes, to be found in the Bates Hall, 6189.11.

Political science. Bagehot, W. Physics and politics 1132.7
Nordhoff, C. Politics for young Americans. 136.2

See also Law, Political economy.

Among many works in the Bates Hall are Mulford: "The nation," 5564.32; — Stickney: "A true republic," 5564.59; — Woolsey: "Political science," 3563.59.

Pollen, J. H. Furniture and woodwork. (*In* Bevan's British manufacturing industries) 1192.1.7
Gold and silver smith's work.....1204.19
Pooley, T. Brewing and distilling. (*In* Bevan's British manufacturing industries).1192.1.12
Poor, The. Sewell, M. "Thy poor brother." Letters on helping the poor.....1117.17
Popular recreator, The. A key to in-door and out-door amusements. 2 v..... 181.3
Porcelain. Lockwood, M. S. Hand-book of ceramic art.....1203.15
Westropp, H. M. Handbook of pottery and porcelain 1204.17

See also Pottery.

Porteous, G. B. Emanuel Swedenborg, as a philosopher, metaphysician, and theologian. [Also] A sermon on redemption, by A. Silver.....No. 1 in 2109.30
Postage stamp album for young collectors. Trifet, F. 1183.1

In the Bates Hall are catalogues of postage stamps by the following: — Brown, 2237.18; — Dexter, 2237.4; — Gray, *2237.11; 2237.16; — Scott, 2232.51; — Trifet: "Descriptive list," *,*2237.19; — Tiffany (lists of publications on stamps), *6162.32; *6162.33.

Potter, H. C. Sermons of the city..... 1113.7
Pottery. Arnoux, L. Pottery 1192.1.7
Lockwood, M. S. Hand-book of ceramic art. 1203.15
MacLaughlin, M. L. Pottery decoration under the glaze.....1204.15

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Pottery, *continued.*
Nichols, G. W. Pottery: how it is made, its shape and decoration 1203.14
Wedgwood, G. R. The history of the tea-cup; with a descriptive account of the potter's art 1206.4
Westropp, H. M. Handbook of pottery and porcelain 1204.17

Lists of books in the Library on Pottery and Porcelain can be found in Bulletins No. 41, April, 1877, pp. 210, 211, and No. 45, April, 1878, p. 348. Since the last date there have been received: — Audsley: "Keramic art in Japan" (colored illustrations, 2 v., f°), *4020.52; — Brongniart and Riocreux: "Manufacture royale de porcelaine de Sèvres," **4020a.60; — "English pottery and porcelain," 4026.76; — Forestié: "Les anciennes faienceries de Montauban" [etc.], 4026.16; — Hancock: "The amateur pottery and glass painter," 4025.75; — Janvier: "Practical ceramics for students," 4026.80; — "Japanese pottery," 4026.82; — Litchfield, 4029.100; — Slosson: "The china hunter's club," 4026.50; — Stallknecht, 8029.4; — Waring: "Ceramic art in remote ages," **35.L.2; — Westropp, 4029.102; — Young, 4025.66; — see also Vases, works on Antiquities, and the division Antiquities under the names of countries and cities.

Pottery painting, A handbook to the practice of. Sparkes, J. C. L. 1204.4
Poultry. Bement, C. N. The American poulterer's companion 168.8; 1177.28
Burnham, G. P. The China fowl. Shanghae, Cochin, and "Brahma" 1177.30
New poultry book 161.4
Guide to success in poultry keeping 1161.8
Wright, L. The practical poultry keeper .. 1177.22

Recent works in the Bates Hall: — Baldamus: "Illustrirtes Handbuch" (2 v.), 4004.59; — Blair, 6009.38; — Burnham: "Diseases," 6004.24; — Coch, 6009.83; — Dixon, 4002.23; — Doyle, 4005.59; — Gayot: "Poules et œufs," 6008.62; — Geyelin, 4008.8; — Jacque: "Le poulailler," 6008.63; — "The pleasures and profits of our little poultry farm," 4008.37; — Roland, 3997 73; — Stoddard: "An egg farm," 6008.28; — Wright: "The illustrated book of poultry," *4002.53; **4002.56.

Power, Harriet. How shall we employ and amuse our invalids? 1157.33
Power in motion. Armour, J. 190.38
Powers, *Mrs.* S. D. Behaving; or, papers on children's etiquette 1137.11
The ugly-girl papers; or, hints for the toilet. 1159.33
Poynter, E. J., and **Head**, P. R. Classic and Italian painting 1204.11
Prang, L., and co., *publishers.* Standard alphabets. The State arms of the Union, etc. 1204.10
Pratt, C. E. The American bicycler 1180.11
Prayer. Conrad, T. K. Thoughts on prayer. 2109.28
The gift of the knees: or the ministry of prayer, the ministry of power 1119.25
Preaching. Beecher, H. W. Yale lectures on preaching 848.11
Brooks, P. Lectures on preaching before the Divinity school of Yale college in 1877. 1124.5

See also the Bates Hall Card catalogue.

Pre-Adamite, The, or who tempted Eve? Lester, A. H. 1149.15
Preece, W. H., and **Sivewright**, J. Telegraphy 1149.18
Pre-historic man. Nicols, A. The puzzle of life and how it has been put together .. 1149.21

See the Bates Hall Card catalogue under the headings Man, Prehistoric. For a list of books in this Library on Prehistoric archæology, see the Bulletin, No. 32, January, 1875, page 299.

Pre-historic world, The. Berthet, É. 1147.17
Premature death: its promotion or prevention 1174.15
Prescott, G. B. Electricity and the electric telegraph 1145.5
The speaking telephone, electric light, and other recent electrical inventions 141.7
Preservation, The, of beauty. Colange, L. de 1196.12

Shelf. No.

Preserved provisions. Manley, J. J. 1192.1.12
Pressensé, E. de. The early years of Christianity. The martyrs and apologists 115.17

There are other works by this author in the Bates Hall.

Pretty arts for the employment of leisure hours. Davidson, E. A. 1204.13
Price, E. F. The science of self-defence. A treatise on sparring and wrestling 1186.6
Prime, W. C. I go a-fishing 1185.8
Primitive manners and customs. Farrer, J. A. 1147.18

The following in Bates Hall are recent studies on early social customs: — MacLennan: "Studies in ancient history," 2239.60; — Maine: "Village communities," 3564.7; — Mitchell: "The past in the present," 2235.66; 2235.68; — Morgan: "Ancient society," 2302.60; — Stone: "Cradle-lands," 2302.63.

Primitive physic. Wesley, J. 1159.40
Prince, J. J. School management and method. 1137.12
Printing. Drew, B. Pens and types: or, hints and helps for those who write, print, or read 1137.22
Hatton, J. Printing 1192.1.8

See also the Bates Hall Card catalogue. Among many books there found on printing are the following: — Blades: "Biography of Caxton," *2118.16; — "Caxton celebration," *2118.17; — Claye: "Typographie," 2118.13; — De Vinne: "Printers' price list" (1871), *2118.10; — De Vinne: "The invention of printing," *2112.36; — Didot: "Essai," 2112.27; — Fournier: "Traite," 6116.1; — Hain (books before 1500), *2141.2; — Hansard, *2114.4 and 5; Humphreys: "History," *2200.31; — Lefevre: "Guide pratique," 6113.5; — Lynch: "Printers' manual," 6118.11; — Mackellar: "The American printer," *6117.2; — Maittaire (to 1664), *2200.17; — Monet: "Le conducteur de machines typographiques," 4019.55 — Panzer: "Annales typographici," *2141.1; — Ringwalt: "American encyclopædia of printing," *6110.3; — Savage: "Dictionary" (pub. 1841), *2113.1; — Sheahan, *6110a.4; — Thomas: "History of printing" (2d ed., 1874, 2 v.), C. R. 18.2.16; Vol. 5 and 6 of *2311.1; — Wilson, 6118.19.

Biography. — Bigmore and Wyman, *6616.5; — Hoe, *6119.13; — Marthens, *6118.8; — see also Bibliography, Block-books, Books, Engraving, Illumination, Lithography, Paper, Stereotyping, Types; and the Card Index of the United States congressional documents.

Prisoners, The, of St.-Lasare 126.22
Proa, The canoe and the flying. Alden, W. L. 1181.3
Proctor, R. A. The expanse of heaven 1144.8
Flowers of the sky 1144.10
Half-hours with the telescope 1144.4
Lessons in elementary astronomy 149.33
Same. With an appendix, containing hints for young telescopists 1149.19
Light science for leisure hours 1142.5
A new star atlas 147.4
Our place among infinities 1156.10
The poetry of astronomy 1163.10
Rough ways made smooth; a series of familiar essays on scientific subjects 1144.11
Science byways 1147.9
The spectroscope and its work 1142.21
Proffat, J. Woman before the law 1135.8
Progress and poverty. George, H. 130.8
Prohibition a failure. Lewis, D. 1128.17
Projection, An elementary treatise on orthographic. Binns, W. 206.10
Property, Hints to women on the care of. Walker, A. 1134.5
Prophecy. The coming catastrophe, being a prediction by C. A. Grimmer [and others]. 1118.29
Psalmody. Bird, J. and H. The singing school companion: a collection of secular and sacred music 1206.9
Bliss, P. P., and Sankey, I. D. Gospel hymns and sacred songs. 2 v. 1207.15

See also Hymns.

Pseudopia. Clarke, E. H. Visions: a study of false sight 1117.27
Psychic facts. Harrison, W. H., *editor* 1141.10
Puddings and sweets. Jones, L. 1184.5

Shelf. No.

Punctuation. Drew, B. Pens and types: or, hints and helps for those who write, print, or read 1137.22

In the Bates Hall are works on this subject by Hill, 2489.59; 3597.58; — Petit (French), 2689.69; — Turner, C.R.18.4.9; — Wilson, 2115.1; 2487.51; 6588.6; etc. See also English language.

Punshon, W. M. Lectures and sermons 1114.4
Puzzle, The, of life. Nicols, A. 1149.21
Puzzledom, Excursions into. Hood, T., *jr.*, and Broderip, F. F. 1184.9
Puzzlewell, Peter, *pseud.* Home amusements: a choice collection of riddles, charades, parlour games, forfeits, etc. 1188.7
Pycroft, J. The cricket-field 1186.5
Pyne, G. Practical rules on drawing 1202.13
Pyrotechnics. Browne, W. H. Minor fireworks 1141.11
Kentish, T. The pyrotechnist's treasury; or, complete art of making fireworks 1142.15

See articles on "Fire-work making" in the Popular recreator, 181.3.2. In the Bates Hall are two works in French by Audot, 5979.59; and Vergnaud, 5979a.16.

Pyrotechny; or, the art of making fireworks, at little cost, and with complete safety and cleanliness 1195.10

Quantities and measurements. Beaton, A. C. 1149.4
Quarries and building stones. Hull, E. 1192.1.2

In the Bates Hall: — Davies on slate quarries, 3868.76.

Quatrefages de Bréau, J. L. A. de. The human species 1147.20
Queer pets at Marcy's. Miller, O. T. 171.13
Questions of the day. Hall, J. 2094.7

Rabbits.

In the Bates Hall: — Delamer: "Rabbits in their wild, domestic, and captive state," 4004.31; — "The dove cot and rabbit warren," 6009a.41; — see also Domestic animals, Recreative arts.

Radical club, *Boston*, Sketches and reminiscences of the. Sargent, M. E. 1114.20
Railway bolts and spikes. Aitken, W. C. . 1192.1.3
Railroads. Adams, C. F., *jr.* Notes on railroad accidents 1193.6
Clark, D. K. Railways and tramways ... 1192.1.10
Taylor, J. A fast life on the modern highway 1828.7

See also the Bates Hall Card catalogue.

Ralfe, C. H. Exercise and training 1174.13
Ramsay, A., *jr.* The rudiments of mineralogy. 1149.9
Ramsay, G. M. Cosmology 167.10
Rand, E. S., *jr.* Garden flowers: how to cultivate them. A treatise on the culture of hardy ornamental trees, shrubs, annuals, herbaceous and bedding plants 1174.5
Popular flowers, and how to cultivate them. 1174.2
The window gardener 150.36

In the Bates Hall, by the same author: — "Orchids," 3848.66; "The rhododendron," 5859.10.

Rankine, W. J. M. Useful rules and tables for architects, builders, engineers, etc. .. 190.33

In the Bates Hall, by the same author: — "The cyclopædia of machine and hand-tools," *4010.60; — "Manual of applied mechanics" (3d ed., 1864), 5948.3; — "Manual of civil engineering" (11th ed., 1876), 4019.100; — "Manual of machinery and millwork," 8017.7; — "Manual of the steam engine" (7th ed., 1874), 3948.52; — "Memoir of John Elder, engineer and shipbuilder," 2446.55; — "Miscellaneous scientific papers," 3914.56; — "Shipbuilding," **4000.1.

Rankine, W. J. M., and **Bamber**, E. F. A mechanical text-book 190.34
Ranyard, L. N. The Book and its story 118.14
Fresh leaves in the Book and its story 118.15
Rarey, J. S. Taming or breaking the horse, by a new and improved method 1176.21

Shelf. No.

Ratton, J. J. L. A handbook of common salt 1142.22
Rawlinson, G. Elementary statics. Ed. by E. Sturges 1141.14
Read, J. E. Farming for profit. A hand-book for the American farmer 161.6
Reade, W. W. The martyrdom of man 1145.3
Ready reckoner, Millers', merchants', and farmers' 1149.2
Reason, faith, and duty. Sermons. Walker, J. 1103.10
Receipts. All about everything: a dictionary of practical recipes and every-day information 1180.3
Benjamin, P. Wrinkles and recipes, compiled from the Scientific American 1187.11
Chase, A. W. Recipes; or, information for everybody 188.37
Dick, W. B. Encyclopedia of practical receipts and processes ..... R.R., D.3
Gifford, H. The general receipt book 1159.40
Miller, E. S. In the kitchen 1185.5
Moore, R. The artizans' guide and everybody's assistant: receipts and tables. 1207.7; 1209.29
Souillard, F. A. Book of practical receipts. 188.28
Woodman, M. S. Choice receipts 1189.10

See also Cookery, Domestic economy, Food.

In the Bates Hall: — Allen, *4003.56: — "American perfumer's manual," 4008.36; — Bitard: "Encyclopédie universelle des connaissances pratiques," 4008.69; — Browne: "What girls can do," 3588.62; — Cowan, 6009.84; — Cristiani: "Perfumery and kindred arts," 4004.66; — Cust: "The invalid's own book," 6009.72; — "Facts and hints for every-day life," 4006.77; — "Facts for the people," 7998.10; — Fin Bec: "The dinner bell," 4006.72; — Fothergill, 5769.34; — Héraud (in French), 6008.67; — Hooper, 4007.76; — Moore: "The universal assistant, and complete mechanic," 4017.65; — Neely, 4006.33; — Philp: "Enquire within," 6008.57; "The domestic word," 4006.69; — "Popular lessons on cookery," 6007.65; — Short: "Dinners at home," 4006.61; — Walsh, 4007.64; — Wood: "The money-maker's manual," 5649.70; — Youmans, 4004.50.

Reclus, É. The history of a mountain 1144.14
The ocean, atmosphere, and life 171.5

The following illustrated works, by the same author, are in the Bates Hall: — "The earth," 5822.4; 5824.9; (ed. of 1877), 3829.62; (same, in French), 5961.3; — "Histoire d'un ruisseau," 5948.7; — "Nouvelle géographie universelle," *2270a.50; — "Les phénomènes terrestres," 3969.58; 5827.18; — "La Sicile et l'éruption de l'Etna en 1865," *6291.1.7; — "Voyage aux régions minières de la Transylvanie occidentale," 1873, *6291.1.14.

Recreative arts. Bartlett, G. B. Parlor amusements for the young folks 1367.15
Bellew, C. The merry circle: a book of new games and amusements 186.10
Dick, W. B., Frost, S. A., and Taylor, W. What shall we do to-night? or social amusements for evening parties 186.17
Elliott, A. Out-of-doors: a handbook of games for the playground 186.16
Within-doors: a book of games and pastimes for the drawing-room 186.15
Gilbert, C. Endless mirth and amusement. A collection of games, shadow plays, magic, etc. 1187.6
Gill, W. F. Home recreations 1366.18
How to amuse an evening party. A complete collection of home recreations 1187.6
Mackarness, M. A. The young lady's book. A manual of amusements, exercises, studies and pursuits 1187.10
Modern out-door amusements 186.14
Modern pastime; or, indoor amusements ... 186.12
The modern sphinx: a collection of enigmas, charades, rebuses, etc. 1185.1
Pardon, G. F. Games for all seasons 1189.17
Planché, F. D'A. Amusement without end. 1187.8
The popular recreator. A key to in-door and out-door amusements. 2 v. 181.3

Shelf. No.

Recreative arts, *continued.*
Puzzlewell, Peter, *pseud.* Home amusements: a collection of riddles, charades, parlour games, forfeits, etc. 1188.7
Smith, C. L. The American home book of in-door games, amusements, and occupations..... 186.9
Home arts for old and young..... 1187.1
Home games for old and young..... 1187.2
Popular pastimes for field and fireside... 180.97
Valentine, *Mrs.* R. The girls' home book: or, how to play and how to work..... 1188.6
The home book for young ladies..... 1196.8
Wood, J. G. The modern playmate.....1189.22

See also Archery, Backgammon, Base-ball, Bésique, Billiards, Boats and boating, Cards, Charades, Chess, Conundrums, Cribbage, Cricket, Croquet, Dominoes, Draughts, Euchre, Fish and fishing, Gymnastics, La crosse, Magic, Riddles, Shooting, Skating, Sports and sporting, Swimming, Whist, Yachts and yachting.

In the Bates Hall:—Strutt's "Sports and pastimes of the people of England," 2539.22, and other works.

Religion. Draper, J. W. History of the conflict between religion and science.1118.4; 2106.30
Field, H. A home for the homeless; or, union with God..... 118.11
Frothingham, O. B. A child's book of religion 2109.36
Mueller, Max. Lectures on the science of religion 2096.21

See also Christianity, Theology.

Renaissance. Smith, T. R. Architecture, Gothic and Renaissance.....1204.12

Books on the Renaissance are described in Bulletins No. 50–57.

Reptiles.

In the Bates Hall are:—Bell and Baird: "Tabular view of the orders," *5903.7;—Figuier: "Reptiles and birds," 5903.9; (in French), 5903.10, and many other works, scientific and popular, to be found under the names of different species, under the heading Natural history, and under the names of countries, division 58 ("Herpetology").

Revivals. Clark, R. W. The work of God in Great Britain, under Moody and Sankey, 1873 to 1875.....2107.32
Reynolds, O. Sewer gas, and how to keep it out of houses. A handbook on house drainage. 3d ed. 1173.25
Rice, E. E. Evangeline. Opera bouffe. Libretto by J. C. Goodwin..... 201.29
Richards, J. The arrangement, care, and operation of wood-working factories and machinery.....1198.23
The economy of workshop manipulation....1207.12
Richardson, B. W. Diseases of modern life.1156.14
Health and occupation.....1173.21
Richardson, H. W. The national banks....1139.19
Richardson, J. G. Long life, and how to reach it.....1174.27
Richardson, W. Packing-case tables..... 190.49
Richmond, T. God dealing with slavery. Spirit messages from Franklin, Lincoln, and others..... 127.24
Riddles, Book of. Howard, C. J.....180.125
Ridge, B. Ourselves, our food, and our physic.1173.18
Riding and driving, Handbook of. Beadle, E. F. .....No. 4 in 1197.13

See also Horsemanship.

Riding recollections. Melville, G. J. W. ...1176.24
Rifles.

The following are in the Bates Hall:—Busk: "Rifleman's manual," 3953.13;—Gildersleeve: "Rifles and marksmanship," 5959.57; "The rifleman's hand-book," 7959.11; —Laidley: "Course of instruction in rifle firing," 3959.74;—Perry: "Modern observations on rifle shooting," 3959.73;—Weston: "The rifle club and range," 3959.70;—Wingate: "Manual for rifle practice," 5959a.60; see also Breech-loading firearms, Fire-arms, Rifled cannon, Tactics.

Shelf. No.

Rimbault, E. F. Musical instruments. (*In* Bevan's British manufacturing industries) 1192.1.11
Rimmer, W. Elements of design. Book 1. 1201.2; 1201.6

In the Bates Hall:—Rimmer's "Art anatomy," an illustrated folio, **8060a.8; **8060a.10.

Roads, History of. Smiles, S. Lives of the engineers.....1537.1.3

In the Bates Hall:—Codrington: "Macadamised roads," 4016.71;—Gillmore, 4018.71;—Law and Clark, 4016.54;—"Prize essays" (1870), 8013.29; and other works.

Robert, H. M. Pocket manual of rules of order for deliberative assemblies. 1879..1138.13
Robinson, H. Sewage disposal.....1173.22
Robinson, H., and **Melliss,** J. C. Purification of water-carried sewage.....1173.23
Robinson, M. H. La crosse. (The national game of Canada) 180.117
Robinson, W. S. Warrington's manual for the information of officers and members of legislatures, conventions, etc., according to the parliamentary law and practice in the United States. 1875 ..... 1139.7
Rocks, The study of. Rutley, F.....1149.26
Roe, E. P. Play and profit in my garden.... 1163.4
Success with small fruits 161.5
Rogers, F. The architect's guide 1202.14
Rogers, J. E. T. Social economy....129.15; 138.17
Rogers, R. V., *jr.* The law of hotel life; or, the wrongs and rights of host and guest. 1130.2
Roman catholic church. Gladstone, W. E. Rome and the newest fashions in religion. 2109.34
Mediæval and modern saints and miracles. 2104.21
Petruccelli della Gattina, F. Popery exposed. 2102.7
Youngman, W. E. For husks, food.....1117.25

For other books consult the Card catalogues of the Lower Hall and the Bates Hall.

Rome. Huidekoper, F. Judaism at Rome B. C. 76 to A. D. 140.....1117.15
Withrow, W. H. The catacombs of Rome, and their testimony relative to primitive Christianity 2087.9

See also the Lower Hall Catalogue of history, biography, and travel, and the Card catalogues of the Lower Hall and the Bates Hall.

Romer, A. Anecdotal and descriptive natural history of animals.....1164.19
Roofs.

See cards in the Bates Hall catalogue under Architecture, Iron roofs, Roofs, Trusses.

Roscoe, H. E. Chemistry..... 149.26

In the Bates Hall by the same author:—"Lessons in elementary chemistry" (ed. of 1868), 5979a.4; (ed. of 1878), 3977.59;—(With F. Jones): "The Owens college junior course of practical chemistry," 3979.57;—"Spectrum analysis," 5924.8; 7921.26;—(With C. Schorlemmer): "Treatise on chemistry," 3974.54; 3974.55.

Rose, J. The complete practical machinist: embracing lathe work, vise work, the making and use of tools, etc.....1195.19

In the Bates Hall by the same author: "The pattern maker's assistant," 4017.62.

Rose.

In the Bates Hall are the following works, mostly illustrated:—Hibberd: "The amateur's rose book," 3999.54;—Hole: "Book about roses" (eds. of 1869, 1877), 5859.4; 5859.18;—Jamain and Forney: "Les roses," *3841.50;—Lindley: "Monographia rosarum" (1820), 3854.2;—Parkman: "The book of roses," 5859.2;—Parsons, 5847.19; 5847.20;—Prior, 3858.57;—Rivers (eds. of 1872, 1877), 3999.50; 5999a.23; see also Botany.

Rosengarten, A. A handbook of architectural styles. With 639 illus..... 192.5

Shelf. No.

Rossiter, W. An elementary handbook of applied mechanics, with 88 diagrams.....1197.10
An elementary handbook of theoretical mechanics, with 145 diagrams.....1197.11
An illustrated dictionary of scientific terms. R.R., A.16

In the Bates Hall, by the same author: "Elementary handbook of physics," 5968.11.

Rough ways made smooth. Proctor, R. A...1144.11
Routledge, G. Discoveries and inventions of the nineteenth century..... 1147.7
Routledge, R., *editor*. Science in sport made philosophy in earnest 1174.10

By the same author, in the Bates Hall: "A popular history of science," 3916.66.

Routledge's Handbook of swimming.....180.124
Rowe, R. Picked up in the streets; or, struggles for life amongst the London poor....1124.13
Rowing. Derington, T. J. How to row.... 1180.6
Harding, W. E. The athlete's guide..... 137.11
Pardon, G. F., *editor*. Rowing, sculling and canoeing 1180.7
Woodgate, W. B. "Oars and sculls," and how to use them 1189.19

See also Boats and boating; and articles on rowing in The popular recreator, 181.3.

In the Bates Hall:—Brickwood: "Boat racing," 4007.62;—Maclaren: "Training and practice" (ed. of 1866), 6003.20; (ed. of 1874), 6008.66.

Rowton, F. The debater 1397.10
How to conduct a debate 1135.6
Running. Harding, W. E. The athlete's guide 137.11
Rural architecture; being a series of designs for rural and other dwellings..... 199.30
Rural bird life. Dixon, C.....1171.10
Ruskin, J. Ariadne Florentina. Six lectures on wood and metal engraving 1203.3
Art culture: a hand-book of art technicalities and criticisms 1203.7
The eagle's nest. Ten lectures on the relation of natural science to art, 1872..... 1207.4
Pearls for young ladies. Collected and arranged by Louisa C. Tuthill..... 1124.9

The following works by Ruskin are also to be found in the Lower Hall:—"Elements of crystallisation," 180.17;—"Elements of drawing," 206.11; 206.12;—"Elements of perspective," 205.8;—"First principles of political economy," 1126.10;—"Lectures on architecture and painting," 206.2;—"Lectures on art before the University of Oxford, 1870," 207.17;—"Notes on the Turner gallery at Marlborough house, 1856–7," 206.1;—"Political economy of art," 208.25;—"Pre-Raphaelitism. [Added, Notes on the construction of sheepfolds]," 206.3;—"Selections from [his] writings," 204.23;—"The seven lamps of architecture," 208.24;—"Time and tide, by Weare and Tyne," 1126.27;—"The true and the beautiful in nature, art, morals, and religion," 206.17;—"The two paths: lectures on art, and its application," 207.22.

In the Bates Hall:—Works, 6 v., *2476.51;—"Aratra Pentelici. Six lectures on sculpture," 2579a.71;—"Arrows of the chace: letters" [etc.], 2 v., *2552.68;—"The crown of wild olive," 2579a.65; 4578.30;—"Deucalion," 2579a.59;—"Ethics of the dust," 2579a.63; 3868.25; 7864.32;—"Examples of the architecture of Venice," *D.3;—"Fors clavigera," 2579a.69; 3567.61;—"Frondes agrestes," 4078.63;—"The king of the Golden river," 2579a.58; 4576.31;—"The laws of Fiesole," No. 2 in 2575.74;—"Letters and advice to young girls and young ladies," 3588.22;—"The Lord's prayer and the church," 3440.87;—"Love's meinie," 2579a.74; 3909.52;—"Modern painters" (American ed., 5 v.), 2599a.50; (English ed., 5 v.), **8072.50;—"Mornings in Florence," 2575.76; 4078.71;—"Munera pulveris," 2579a.70;—"The mystery of life and its arts," 2575.28;—"Notes on the construction of sheepfolds," 5460a.114; No. 10 in *5520a.16;—"Notes on his collection of drawings by Turner," **4061.40;—"Notes on Samuel Prout and William Hunt," **6070.63;—"The poetry of architecture," 2579a.73; 4099.51;—"Precious thoughts: from [his] works by Mrs. L. C. Tuthill," 4609.1;—"Proserpina. Studies of wayside flowers," 2575.75; *5845.25;—"The queen of the air," 2579a.67; 5488.31;—"The relation between Michael Angelo and Tintoret," 4079.58;—"Ruskin on painting," 4069.61;—"St. Mark's rest," 2575.74;—"Sesame and lilies," 5599a.8;—"The stones of Venice" (Amer. ed., 3 v.), 2579a.51; (English ed., 3 v.), **4092.7;—"Unto this last" (essays on political economy), 2579a.64; 3640.35. For a minute list of Ruskin's writings consult Shepherd's "Bibliography of Ruskin," *2575.64.

Shelf. No.

Rutley, F. The study of rocks, an elementary text-book of petrology.....1149.26

S., T. B. Stories about horses. Compiled by the editor of the "British workman".....1176.20
Sabine, R. Telegraphy. (*In* Bevan's British manufacturing industries).....1192.1.10
Sacred and legendary art. Jameson, A. M.1207.28
Sacred music. Crafts, W. F., *compiler*. Trophies of song. Articles and incidents on the power of sacred music.....2106.28
Saddlery. Aitken, W. C. 1192.1.3
Safest creed, The. Frothingham, O. B. 1118.15
Sailing and yachting. Pardon, G. F., *editor*. 1180.7
St.-Lazare, The prisoners of..... 126.22
Salmon fisheries. Young, A. 1192.1.13

In Bates Hall:—Clericus: "Facts and fancies of salmon fishing," 4008.60;—Russell: "The salmon," 3907.14;—Wilson: "Salmon at the Antipodes," 6008.76;—Yarrell: "Growth of the salmon," 3870.28.

Salt. Manley, J. J. Salt.....1192.1.12
Ratton, J. J. L. A handbook of common salt.1142.22
Sampson, H. Modern boxing. By Pendragon [*pseud.*]. Part 1. The decay and downfall of the prize-ring..... 1181.5
Sanitary science, as applied to the healthy construction of houses in town and country. Burn, R. S. 1173.20
Sanitary work in the smaller towns and in villages. Slagg, C. 1173.19
Sankey, I. D. *See* Bliss, P. P.; Moody, D. L.
Saphir, A. Christ and the Scriptures.....2089.22
Sargent, Epes. The proof palpable of immortality; being an account of the materialization phenomena of modern spiritualism... 1127.9
The scientific basis of spiritualism.....1117.28
Sargent, Mary E., *editor*. Sketches and reminiscences of the Radical club of Chestnut street, Boston.....1114.20
Satan. Bradlaugh, C. A few words about the Devil.....2106.26
Saws. Grimshaw, R. The history, development, action [etc.], of saws of all kinds. 192.4
Sawyer, G. A. Fret-sawing and wood-carving for amateurs..... 1207.8
Scamell, G. Breweries and maltings: their arrangement, construction, machinery, and plant 192.3
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Schmidt, O. The doctrine of descent and Darwinism 1147.5
Schoedler, H. The treasury of natural science.....1142.23
School and industrial hygiene. Lincoln, D. F.1174.36
School cookery book, The. Wright, C. E. G., *editor*..... 1181.9
School management and method. Prince, J. J.1137.12
Schools, Some curious..... 130.3
Schuetzenberger, M. P. On fermentation..1147.12
Science. Annual of scientific discovery: or, year-book of facts in science and art, 1850–71. 21 v. 159.1
Brown, R. Science for all. 3 v. 141.5
Buckley, A. B. The fairy-land of science. 1155.18; 1155.19
A short history of natural science.....1147.11
Burr, E. F. Pater mundi; or, modern science testifying to the Heavenly Father.2096.19.1
Champlin, J. D., *jr*. The child's catechism of common things..... 1146.3
Helmholtz, H. Popular lectures on scientific subjects. 2 v. 1167.11
Nichols, J. R. Fireside science. 895.24

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Science, *continued.*

Proctor, R. A. Light science for leisure hours 1142.5
Rough ways made smooth 1144.11
Science byways 1147.9
Rossiter, W. An illustrated dictionary of scientific terms ..... R.R., A.16
Routledge, R. Science in sport made philosophy in earnest 1174.10
Ruskin, J. The eagle's nest. Ten lectures on the relation of natural science to art, 1872 ..... 1207.4
Timbs, J. Popular science familiarly illustrated 149.1
Twining, T. Science made easy 1146.6
Tyndall, J. Fragments of science for unscientific people 895.22
Wylde, J. The circle of the sciences. 2 v. 142.1
The magic of science 1182.9
Year-book of facts in science and art. 1839, 43, 50–54, 58, 61, 65–67, 77, 78. 14 v. ... 159.2

See also Physics, Social science, and the names of special sciences, like Astronomy, etc.

The following, mostly elementary, are selected from titles in the Bates Hall Card catalogue: — Brookes: "Popular guide to the terms of art and science," *8039.19; — Dircks: "Scientific studies," 5918.25; — Figuier: "Principales découvertes scientifiques modernes," 3965.8; — Flammarion: "Contemplations scientifiques," 5918.3; — Haeckel: "Freedom in science and teaching," 3829.67; 3829.72; — Jevons: "The principles of science," 3604.55; 5607.75; — Lubbock: "Scientific lectures," 3914.51; — Nichols: "Science at home," 3918.68; — Pepper: "Cyclopædic science simplified" (4th ed., 1877), *3937.51; — Peterson: "Familiar science," 5919a.4; — Phipson: "Familiar letters," 3918.60; — Proctor: "The borderland of science," 3918.52; "Pleasant ways in science," 3918.66; 3916.63; — Radau: "Les derniers progrès de la science," 5868.40; — Routledge: "Popular history of science," 3916.66; — South Kensington museum: "Free evening lectures," 3916.50; — see also the names of the several sciences, and the biographies of scientific men.

Science and religion. Dawson, J. W. Nature and the Bible 1128.16
Draper, J. W. History of the conflict between religion and science 1118.4; 2106.30
Faunce, D. W. A young man's difficulties with his Bible 1114.6
Mueller, Max. Lectures on the science of religion 2096.21

Science primers. *Namely:* —
Foster, M. Physiology 1156.5
Hooker, *Sir* J. D. Botany 1167.21
Huxley, T. H. Introductory 1144.13
Jevons, W. S. Logic 1129.17
Political economy 130.1
Lockyer, J. N. Astronomy 1156.8

Scientific American. Vol. 1–8, 10–13. New series, vol. 1–3, 5–24, 26, 39, 43. 38 v. in 33. 10.1
Same. Supplement. Vol. 7, 8 ..... 10.4

This illustrated periodical can also be consulted in the Bates Hall, *5960.23; *3970.6.

Scientific industries explained. Watt, A. .. 190.57

Scissors and yardstick; or, all about dry goods. Brown, C. M., and Gates, C. L. ..1198.25

Scoffern, J., and others. Useful metals and their alloys 1142.24

Scotland. Hamerton, P. G. A painter's camp in Scotland [in 1866] 1654.3
Pittman, J., and others, *editors.* The songs of Scotland 202.25

Consult the Lower Hall Catalogue of history, biography, and travel, and the Card catalogues of the Lower Hall and the Bates Hall.

Scovil, W. E. A short-hand. With a simplified system of verbatim reporting 128.34

Screw propeller, The: who invented it? Wilson, R. 1193.9

In the Bates Hall are works on screw propellers, by Bourne, *4021.10; — Leclert (in French), 6679a.18; — Lewal (in French), *5952.6, Atlas, *5950.3; — Murray, 5958.54; — Nystrom, 5946.4; — Paris (in French), 3951.64; — Rawson, 3952.1; etc.

Shelf. No.

Screws, Wood. Aitken, W. C. 1192.1.3

Scripture texts illustrated by general literature. Jacox, F. 1117.22

Sculpture, Wonders of. Viardot, L. 1198.19

In the Bates Hall are the following, in English: — Brigham: "Cast catalogue of antique sculpture," *4071.61; — Clark: "Great American sculptors," **8084.6; — Cumberland: "Outlines from the ancients," 4073.1; — Flaxman: "Lectures," 4074.1; — Hervey: "Illustrations of modern sculpture," *4070.17; — Jameson: "Handbook to the courts of modern sculpture," 4089.31; — Luebke: "History" (2 v.), 4074.17; — Memes: "History," 8079.51; — Murray, 4075.22; — Ruskin: "Aratra Pentelici," 2579a.71; — Scott: "The British school of sculpture," **8085.6; — Vago: "Instructions in the art of modeling in clay," 4078.29.

In foreign languages. — Alberti, 4064.8; — Arsenne (2 v.), 4067.38; — Baldinucci, *4076.2; — Carradori, *4071.4; — Carriere: "Atlas," *8086.4; — Cellini, **4805.4.2; — Cicognara, *4070.4; *4073.6 (7 v.); — Clarac: "Musée de sculpture" (13 v.), *4073.4; — Claretie: "Peintres et sculpteurs contemporains," 4079.63; — Émeric-David, 8079a.24; — Jacobs, **4073.9; — Jouin: "La sculpture en Europe, 1878," 4066.42; — Lanzi, 4074.7; — Luebke: "Geschichte der Plastik" (2 v.), *A.225.5; 4074.31; — Meyer (3 v.), *4284.1; — Overbeck, 4074.31; — Quatremère de Quincy: "Le Jupiter Olympien," *4070.3; — Ramdohr (in Rome, 3 v.), 4064.11; — Ravaisson-Mollien (the Louvre), 4065.42; — Selvatico (Venice), 4073.3; — Vasari: "Vite de' più eccellenti scultori" (6 v.), 4087.8; — Viardot, 8068.4; and other works.

See also the Catalogue of engravings in the Tosti collection; and, in the Bates Hall Card catalogue, the headings Artists, Fine arts; the names of countries, division Fine arts; and the names of galleries, museums, and sculptors.

Sea, The. Adams, W. H. D. The monsters of the deep: and curiosities of ocean life. 1176.19
Ballantyne, R. M. The ocean and its wonders 1176.18
Benjamin, S. G. W. The multitudinous seas 1168.9
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In the Bates Hall: — Durant: "Sea-bathing," 5779a.75; — Figuier: "Earth and sea," 5822.6; "The ocean world," 5824.4; — Hartwig: "The sea and its living wonders," 3825.54; (in German), 3907.6; "Sea-bathing," 5809a.21; — Jordan: "The ocean: its tides and currents," 3965.55; — Kingsley: "Glaucus; or, the wonders of the shore," *2568.57; — La Landelle: "Le tableau de la mer," 6267.3; — Mangin: "Mysteries of the ocean," *5902.1; — Maury: "Physical geography of the sea," 5822.57, etc.; — Michelet: "The sea," 5824.18; (in French), 5824.13; — Moquin-Tandon: "The world of the sea," 5822.2; — Moreau de Jonnès: "L'océan des anciens," 2299.52; — Parsons: "Sea-air and sea-bathing," 5804.56; — Sonrel: "Le fond de la mer," 5908.24; — Thomson: "The depths of the sea," 5822.13; — Wild: "Thalassa, the depth, temperature, and currents of the ocean," 3964.63; — Williams: "Geography of the oceans," 3829.80; — Wilson: "The ocean as a health-resort," 2267.64; — Zimmermann: "Das Meer," 3879.20; see also Algæ, Aquarium, Marine zoology.

Sea-air and sea-bathing. Packard, J. H. ...1174.33

In the Bates Hall: — Durant, 5799a.75; — Hartwig, 5809a.21; — Parsons, 5804.56.

Sea fisheries. Holdsworth, E. W. H. 1192.1.13

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Sea-side walks of a naturalist. Houghton, W. 1164.14

Seaweeds. Clarke, L. L. The common seaweeds of the British coast and Channel islands 169.46

In the Bates Hall: — Agardh, 3859.6; 3859.7; 3846.70; — Bornet and Thuret, *3850.50; — Durkee (Collection), **3900.24; — Eaton (Maine coast), *5312.51.2, Part 2; — Gatty: "British sea-weeds," *3843.61; — Greville: "Algæ Britannicæ," 3859.2; — Harvey: "Manual of British algæ," 5856.4; 5858.1; — Harvey: (North America, etc.), 3340.1; 7918.50; — Harvey: "Phycologia Britannica," *3851.13; — Johnstone and Croall: "Nature-printed British sea-weeds," *3844.50; — Jordan (Atlantic coast), 5904.25; — Kuetzing: "Anatomie," etc., *3851.10; — Kuetzing: "Phycologia Germanica," 3859.3; — Kuetzing: "Tabulae phycologicae" (19 vols.), *3859.1; — Mason (Specimens, Cape Ann), **5840.6; — Naegeli,

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Seaweeds, *continued.*

3841.58; — Nave: "Collection and preparation," 3859.36; — Schwendener, *5841.19; — Thuret, **3840.57; — Zanardini: "Iconographia phycologica Adriatica," **3850.51; — and other works to be found under the heading Algæ.

Secret, The, of a clear head. Granville, J. M. 1174.30
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Secret out, The; or, one thousand tricks in drawing-room or white magic, Frickell, G. 187.21; 187.30
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Sex in industry: a plea for the working-girl. Ames, A., *jr.* 1159.42
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In the Bates Hall are the following works on silk and the silk-worm: — Boullenois (in French), 4003.10; — J. H. Cobb, 4019.3; 4003.41; — Congrès international séricicole, 1879, *6025.75; — L'Homergue, 4003.37; 4019.4; — Duseigneur-Kléber: "Le cocon de soie" (with Plates), 3991.51; — Gilroy, *8016.36; — Grand (manufacture at Lyons, 1867), 8020.52; — Kendo, 5999a.32; — Lilly (in the United States, 1875), 8017.31; — Michel (middle ages), 4024.54; — Moyret: "Teinture des soies," 3976.66; — Persoz: "Conditionnement de la soie," 4016.62; — "Report to the department of state on silk and silk manufactures" (at the Paris exposition, 1867), 4026.11; — Wyckoff: "The silk goods of America," 4016.74; etc.

Silk and scarlet. Dixon, H. H. 1183.3
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Skating and sliding. Wood, J. G., and others.180.123

In the Bates Hall: — Vandervell and Witham: "A system of figure-skating," 6007.67.

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Sleep: or the hygiene of the night. Hall, W. W. 158.48

In the Bates Hall: — Granville, 5769.15; — Hammond, 5769a.19; — Macnish (Philosophy of), 5769.71; — Richardson, 5915.50; 3918.54; etc.

Small, J., *editor*. A hundred wonders of the world in nature and art. Described according to the latest authorities, and illustrated 1175.26
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There are copies of this work in the Bates Hall, 2447.24; 2449.73.

Thrift 1139.12

In the Bates Hall, by the same author: — "Life of George Stephenson," 2457.1; 2449.52; — "Life of G. and R. Stephenson," 4543.14; — "Lives of Boulton and Watt," *2445.18; — "Robert Dick, baker of Thurso, geologist and botanist," 2457.56; — "Self-help," 5589.10.

Smith, A. The wealth of nations. 2 v. 1130.1
Smith, Caroline L. (*Aunt Carrie.*) The American home book of in-door games, amusements, and occupations 186.9
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Home games for old and young 1187.2
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Health: a handbook for households and schools 1156.6
Smith, F. The canary: its varieties, management, and breeding 1164.20
Smith, T. R. Architecture, Gothic and Renaissance 1204.12
Smith, Thomas. The chairman and speaker's guide. 1876 ..... 1139.17
Smith, Walter. American text books of art education. Free-hand drawing. No. 1–6. 1209.26
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Teachers' manual of free-hand drawing in primary schools 1203.9

In the Bates Hall are the following of the series of American text books of art education: — "Geometrical drawing," *4078.57; 4068.35; "Intermediate course," 4069.56; "Model and object drawing," 4068.33; "Perspective drawing," 4068.32; — also, "The drawing book of standard reproductions," 2 v., *4070.51; 3 v., *C.270.1.

Smith's interest tables. Doty, D. 132.2
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Social economy. About, E. Handbook of social economy 1137.2
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In the Bates Hall: — Angström, 2 v., 5920.19; — Capron: "Photographed spectra," 3923.50; — "Discoveries from the works of Schellen, Young, and others," No. 5 in 3918.54; — Hoppe-Seyler: "Ueber Spectral-analyse," No. 65 in *5914.50.3; — Lecoq de Boisbaudran: "Spectres lumineux," 3924.52; — Leilegg: "Die Spektralanalyse," 5024.9; — Lockyer: "Studies in spectrum analysis," 3927.80; 3927.82; — Proctor, 5929a.56; — Roscoe, 5924.8; 7921.26; — Rosenberg (application to medicine), 3794.72; — Schellen, 3926.54; (in German), 3927.51; — Suffolk (applied to microscopical observations), 3926.65; — Valentin: "Der Gebrauch des Spektroskopes zu physiologischen und ärztlichen Zwecken," 3926.68; — Watts: "Index of spectra," 3926.55; — Zech: "Das Spektrum," 3917.50.15.

Speirs, J., *editor.* Talks to the children. Addresses to the New Church Sunday school, Camden Road, London. [By J. Speirs, S. Teed, and others] 2109.38
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Square. Hodgson, F.T. The carpenters' steel square and its uses 1193.17
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Ladies' dogs, as companions: also a guide to their management 1178.33

Also, in the Bates Hall, by the same author: — "Dogs in their relation to the public," 4006.34; "The domestic cat," 6009a.81; "The practical kennel guide," 4008.73.

Stanley, A. P. Thoughts that breathe 1114.8

For a list of the works of Dean Stanley, consult the Bates Hall Card catalogue.

Stannard, A. Outdoor common birds: their habits and characteristics 1179.27
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Proctor, R. A. A new star atlas 147.4

In the Bates Hall: — Crossley: "Handbook of double stars," **5025.77; — Drayson: "Supposed proper motion of fixed stars," 3926.67: — Dunkin: "The midnight sky," *3921.52; — Flammarion: "Catalogue," 3923.56; — "Guide to the stars," 3927.66; — Lockyer: "Stargazing: past and present," 3923.51; — Proctor: "Half-hours with the stars," 5920.7; — Proctor: "Half-hours with the telescope," 7928.10; — Proctor: "Other worlds than ours," 7924.12; and other works; see also Astronomy.

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See also Natural philosophy, and the heading Statics, in the Bates Hall Card catalogue.

Steam and the steam engine. Baker, T. The mathematical theory of the steam engine. 1199 37
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Steam and the steam engine 1198.20
Hann, J. Treatise on the steam engine 190.21
Lardner, D. Steam and its uses 1195.17
Perry, J. An elementary treatise on steam. 1197.15
Smiles, S. Lives of the engineers. The steam-engine 1537.1.4
Thurston, R. H. History of the growth of the steam-engine 1193.4
Wilson, R. A treatise on steam boilers 1193.7

See also Locomotive engine.

Selections from works in the Bates Hall: — Armengaud: "Traité" (2 v., 1862), 4023.3; — Auchincloss: "Slide valve and link motion" (1875), 4016.72; 8010a.11; — Barr (1880), 4017.77; "High pressure steam boilers" (1880), 4016.79; — Bourne: "Catechism" (1857), 8018.20; "Handbook" (1865), 4018.20; "Recent improvements" (1869), 8018.2; "Treatise" (1866), *8011.3; — Burgh (1868), 8019.50; "Boilers" (1873), *4011.56; — Cotterill (1871), *A.202.11; — Cotterill: "The steam engine as a heat engine" (1878), 3945.66; — Courtney: "The boilermaker's assistant" (1880), 8019.37; — Dempsey (2 v., 1859), 8010a.6; — Denfer: "Chaudières à vapeur" (1878), *3940.12; — Galloway: "The steam engine and its inventors," 4017.80; — Gaudry: "Machines à vapeur" [etc.] (1878, 2 v.), *3943.56; — Goodeve: "Text-book" (1879), 4017.67; — Graham: "Elementary treatise" (1877), 3946.68; — Great Britain, *Com'r of patents*, Specifications, 1618–1866 (Patent Room); — Harrison: "Steam boiler" (1867), 4018.73; — Holley (1867), *8010.4; — Houpt (1874), 4018.57; — Julien: "Traité" (2 v., 1862), *8010a.10; — Long and Buel: "The cadet engineer or steam for the student" (1865), 4018.19; — MacCulloch (1876), 3964.60; — Marks: "Relative proportions of the steam engine" (1879), 4016.66; — "Model steam engine" (1875), 3948.63; — Morin and Tresca: "Des machines à vapeur" (1863), 4016.80; — Northcott (1876), 4017.59; — Perry: "Elementary treatise on steam" (1881), 3948.71; — Poillon: "Cours théorique et pratique" (1877), 3943.51; — Rankine: "Manual" (1874), 3948.52; "Memoir of J. Elder, engineer," 2446.55; — D. Read: "Nathan Read and the steam engine," 8018.9; — Reynolds: "Stationary engine driving" (1881), 4017.78; — Rigg: "Practical treatise on the steam engine" (1878), *4011.70; — Roper: "Catechism of high pressure steam engines" (1876), 8019a.34; — Sexton: "Pocket-book for boiler-makers and steam users" (1875), 8019a.15; — Shock: "Steam boilers" (1880), *8011.63; — Smiles: "History of the invention and introduction of the steam engine" (in his "Lives of Boulton and Watt"), 2445.18; — Tredgold: "Construction" (1853, 4 v.), *4011.7; — Trowbridge: "Heat as a source of power" (1874), 3965.65; see also Engineers, Locomotive engine, Marine engine, Railroads.

Steedman, C. Manual of swimming 1186.4
Steel. Hoare, C. "Iron and steel": a work for the forge, foundry, factory, and office. 190.21
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In the Bates Hall: — Barba (use in construction), 4019.101; — Day: "Prehistoric use," 2235.59; — Ede (management), 3869.23; — Gruner (manufacture), A.201.2; (in French), 8013.24; — Jeans, 4016.78; — Kirkaldy, 8011.12; A.200.4; — Kohn, *8020.25; — Osborn (metallurgy), 7861.6; — Overman, 8018.26; — Styffe, 8013.23; — Whitworth: "Guns and steel," 3954.51; and other works. See also Bessemer process, Iron, Metals.

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Steele, S. S. The book of drawing-room plays, and evening amusements. A collection of charades, etc. 1354.1

Shelf. No.

Stenography. Lindsley, D. P. The elements of tachygraphy 1123.18.1
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In the Bates Hall: — A. M. Bell, 6117.3; *6118.2; — Bigelow, B.160b.84; — Cross, 2119.21; — Duployé, 6111.13; — Graham: "Brief longhand," 2119.24; — Lindsley: "Elements of tachygraphy" (ed. of 1880), 2118.23; — Parkhurst: "The stenophonographer," *6119.9; — Prevost: "Manuel du sténographie," 2119.11; — Saxton, *2115.8; — Stetson, 2115.35; — Taylor, *2115.23; — Underhill: "Steno-printing," 2118.24; — Upham, 6113.14; — Wartig and Zelbig: "Handbuch der stenografischen Literatur," *6114.1; — see also Phonetics and phonography.

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In Bates Hall: — Core (Distance from the earth. Owens college essays), 2552.5; — Guillemin, 7924.6; (in French), 7928.3; — Harvard college, *Astron. observatory:* "Observations," Vol. 7, 8 of *5920.3; — Lockyer: "Contributions to solar physics," 3929.65; — Marchand: "Étude sur la force chimique," 3962.55; — Mouchot: "La chaleur solaire et ses applications industrielles," 5965.6; — Peters: "Die Entfernung der Erde von der Sonne," *5914.50.8; — Proctor, 3926.57; 7920a.3; — Secchi: "Le soleil" (3 v.), 3922.54; — Stewart (in "Half-hour recreations in popular science"), 3918.54.2; — United States, *Naval observatory.* Several publications; — Williams: "The fuel of the sun," 5963.22; — Young: "Our present knowledge of the sun," *F.12.6.

Sunday chats with sensible children. Matéaux, C. L. 1112.1
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Taxidermy.

The following are in the Bates Hall: — Batty: "Practical taxidermy," 3908.57; — Boitard: "Manuel de naturaliste préparateur" (1845), 5829a.52; — Coues: "Field ornithology," 3905.54; — Harting, 6008.13; — Koch: "Die Stellungen der Vögel," *5905.5; — Manton: "Taxidermy without a teacher," 5903a.9; — Swainson, 3882.14; — Sylvester: "Taxidermists' manual," 5909a.10; — Ward, 6009.86; — Waterton, 2360a.65.

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Tea.

In the Bates Hall: — Money: "The cultivation and manufacture of tea," 3993.57; — Nye: "Tea: and the tea trade," 6087.14; 7651.9; — Riant: "Le café, le chocolat, le thé," 6009a.82; — Wanklyn: "Tea, coffee, and cocoa," 3978.58; and other works.

See also Drury: "The useful plants of India," 3845.53; — Elliot: "Experiences of a planter in the jungles of Mysore," 5042.17.2; — Hunter: "Statistical account of Bengal," *5040a.51; — Simmonds: "Tropical agriculture," 3993.53.

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See the list of books printed on the covers of this catalogue.

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In the Bates Hall: — Bell, *4262.57; — Bontemps (in French), 3965.75; — Bréguet, 3966.17; — Culley (7th ed., 1878), 3964.65; — Douglas: "Manual of telegraph construction," 3968.55; — Du Moncel (in French), 3962.56; — Étenaud: "La télégraphie électrique en France et en Algérie," 3965.57; — Gallian: "Dictionnaire télégraphique," 3968.54; — Laurencin: "Le télégraphe," 5969a.7; — Mercadier: "Traité élémentaire," 3968.83; — Moigno: "Traité," 3962.33; — Pope: "Modern practice" (1869), 7962.25; Prime: "Life of Morse," 2342.67; — Reid: "The telegraph in America," 3964.70; — Rousseau: "Traité," 7626.15; — Sauer: "The telegraph in Europe," 5962.22; — Schellen: "Der elektromagnetische Telegraph," 5965.8; — Siemens: "Die elektrische Telegraphie," *5914.50.1; — J. E. Smith: "Manual," 3965.73; — Taylor (Joseph Henry and Morse), 3963.58; — Tegg: "Posts and telegraphs, past and present," 3647.61; — Villefranche: "La télégraphie française," 5968.19; and other works; see also Submarine telegraph.

Periodicals. — "Telegraphic journal," *5960a.2; — "Telegrapher," *5950.6; — "Telegraphic journal and electrical review," *5960a.2.

Telephone. Du Moncel, T. A. L., *comte.* The telephone, the microphone, and the phonograph 1197.14

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In the Bates Hall: — "All about the telephone and phonograph," 5969a.16; — Bell, *5965.58; — Dolbear, 3969.67; — Garner, 5968.27; — Manchester science lectures, 3916.62; — Niaudet: "Téléphones et phonographes," 3966.67; — Tegg, 3969.78.

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Thompson, J. P. Jesus of Nazareth: his life. 2102.10

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Thompson, N.L. History of Plymouth church [Brooklyn, N.Y.] 1082.7

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Tiles.

In the Bates Hall: — Dobson, 8019.16; — Great Britain, *Com'r of patents:* Abridgments of specifications, Patent Room; — Johnson and co. (Price list and specimens), *8023.20; — Minton, Hollins and co. (designs), *4090.72; *4090.73; — Snell: "Enamel painting," 4078.60.

Timber merchant's, The, and builder's companion. Dowsing, W. 190.43

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Tissandier, G. The wonders of water 178.49

The following, by the same author, are in the Bates Hall, and are interesting and popular presentations of scientific subjects: — "L'eau," 3868.33; — "En ballon! pendant le siége de Paris," 2629.70; — "Le grand ballon captif à vapeur de Henry Giffard," 3966.66; — "L'héliogravure," 4072.62; — "Histoire de mes ascensions, précédé de simples notions sur les ballons et la navigation aérienne," 3962.59; — "History and handbook of photography," 3978.67; — "La houille," 7864.26; — "Las poussières de l'air," 5969a.9; — "Travels in the air," 5962.19.

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Todhunter, I. Mensuration for beginners, with examples. 7th ed. 1879.....1141.15

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Toilet. Lola Montez, M. D. E. R. G The arts of beauty; or, secrets of a lady's toilet... 1196.6
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In the Bates Hall: — Hobson: "The amateur mechanic's practical handbook: describing tools [etc.]," 8019.7; — Rankine: "The cyclopædia of machine and hand-tools," *4010.60; — Rennie: "Practical examples of tools and machines," 4014.17; — Spon: "Engineers and contractors' illustrated book of prices of machines, tools [etc.]," 4014.56.

Tourjée, E. The New England conservatory method for the piano-forte..... 201.19

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Townsend, F. Glimpses of Nineveh. B.C. 690. 1116.6

Townsend, L. T. The arena and the throne. [Lectures on astronomy]..... 1144.7

Toys. Bartley, G. C. T. 1192.1.8

See articles on toy-making and toy-games, in The popular recreator, 181.3.

Training. Blaikie, W. How to get strong and how to stay so..... 1173.8
Ralfe, C. H. Exercise and training.....1174.13
Westhall, C. The modern method of training for running, walking, rowing, and boxing.1189.18

In the Bates Hall: — Lee: "Exercise and training; their effects upon health," 6008.30; — Maclaren: "Training in theory and practice" (ed. of 1874), 6008.66.

See also Gymnastics.

Trall, R. T. The hygienic hand-book..... 154.35
The illustrated family gymnasium..... 1188.8
The mother's hygienic hand-book..... 1156.4

Transcendentalism in New England. Frothingham, O. B. 1114.5

Trapping. Gibson, W. H. The complete American trapper.....1175.30

In the Bates Hall: — Newhouse: "The trapper's guide," 6002.15.

Shelf. No.

Treasures, The, of the earth. Jones, W..... 167.3

Treat, Mary. Chapters on ants 1178.31

Tredgold, T. The elementary principles of carpentry. With additions, and a treatise on joinery by E. W. Tarn 190.51

In the Bates Hall: — By Robinson and Tredgold, "Rudimentary treatise on carpentry and joinery" (1859), 8010a.7; and by Price and Tredgold: "Rudimentary treatise on the construction of roofs" (2 v., 1859), 8010a.5 and 8018.5.

Tree culture 1164.27

Trees. Flagg, W. The woods and by-ways of New England 165.33
Kirby, M. and E. Chapters on trees 1175.10

See also Fruit trees.

A list of books in the Boston Public Library on trees and forests can be found in Bulletin No. 48, Jan., 1879, page 31.

Tribune popular science..... 1151.2

Contents. — Astronomical lectures by R. A. Proctor; — Teachings of Agassiz at Penikese; — Discoveries [by Schliemann] on the site of ancient Troy, by Bayard Taylor; — Brown-Séquard's lectures on the nerves; — The National academy of science. Meeting at Washington, April, 1874; — The horse in America; — O. C. Marsh's discoveries in fossils; — Have we two brains? by C. E. Brown-Séquard; — United States survey of the West (with map); — The effects of alcohol, by W. A. Hammond; — The transit of Venus; — American oriental society. Meeting at Boston, May 21, 1874; — Safety at sea: iron steamers that will not sink.

Tricks. *See* Cards, Magic.

Trifet, F. Postage stamp album for young collectors 1183.1

Trigonometry.

In the Bates Hall: — Beasley (plane trigonometry), **5029.70; — Blackburn (plane), **5029a.54; — Bonnycastle, 7931.5 — Bourdon, **5014.82; — Bradbury (elementary), 3919.52; — Briot and Bouquet, **5014.78; — Cacciatore (spherical), **E.213.9; — Cagnoli, 3920.11; — Caswell, **E.191.1; — Chauvenet, 3925.33; 5922.71; — Colenso (plane), **5029a.66; — C. Davies: "Elements," 5938.55; — G. Davies, **5013.52; — De Morgan, **5016.53; **E.212.3; — Farrar (spherical), 7930a.50; — Flint (several editions): — Greenleaf: "Elements," 5928.20; — Griffin: "Elements," 5918.52; — Hann (plane, ed. of 1854), 5929.60; (ed. of 1867), **5029a.62; — Hann (spherical), 5929.64; — Härtell, 3939.10; — Henchie (plane), 5929a.17; — Lacroix, 3925.4 and 23; (in French), 5928.25; — Lardner, 5928.2; — Loomis, 5922.58; — B. Peirce (ed. of 1861), 5922.62; — J. M. Peirce, 3921.50; — Perkins (plane), 5922.59; — Read, 5924.4; — Scholfield, 5936.57; — Sestini, 7057.85; — J. H. Smith (elementary), 5938.56; — Snowball, **5029a.55; — Todhunter (plane, ed. of 1864), 5928.33; (ed. of 1878), **5029.72: — Todhunter (spherical), **5019.54; — Todhunter: "Trigonometry for beginners," **5029a.56; — Trembley, 5928.27; — Turnbull (spherical), 3927.60; — Vacquant, 5914.20.2; — Valette (spherical), 5928.28; — Wheeler (plane), **5017.86; **5017.87; — Wheeler (spherical), **5017.86; — Wolf, **5017.73; — Wolff, **5016.73; — Young, 5925.60; and other works in the Bowditch collection.

Trophies of song. Crafts, W. F., *compiler*..2106.28

True manliness. Hughes, T. 1124.14

True men as we need them. O'Reilly, B..... 2100.4

True order, The, of studies. Hill, T..... 120.2

True words for brave men. Kingsley, C..... 1124.8

Truth, The: a companion to the Bible. Guiteau, C. J. 2101.7

Tunnels.

In the Bates Hall: — Bignami: "Cenisio e Fréjus," 2768.50; — Buck: "Construction of large tunnel shafts," 4012.67; — Castanier (marine tunnels, in French), *4011.61; — Chalmers: "The Channel railway connecting England and France," 8016.11; — Drinker: "Tunneling" [etc.], *4011.71; — Great Britain, *Com'r of patents:* "Abridgments of specifications," Patent Room; — Gripper: "Railway tunnelling in heavy ground," 4013.67; — Leo (in German), 8016.14; — Lorenz: "Praktischer Tunnelbau," *8011.50, Atlas, *80.E.3; — "Mont Cenis tunnel," 4019.57; — "Moyens de construire un tunnel sous-marin," 3950.50; — Rhiza: "Lehrbuch der gesammten Tunnelbaukunst," 8011.51; — Schanz: "Der Montcenis Tunnel," 2869a.53; — Simms: "Practical tunnelling" (ed. of 1877), 4011.64; — Stapff: "Ueber Gesteinbohrmaschinen," *8026.21, Atlas, 8020.24; — Thames tunnel. "Explanation of the works," 8019a.26.

Turning. Elphinstone, H. W. Patterns for turning 1202.9
Lukin, J. The lathe and its uses 190.26
Northcott, W. H. Lathes and turning..... 190.30
Rose, J. The complete practical machinist: embracing lathe work, etc. 1195.19

In the Bates Hall: — Bazly, A.202.18; — Campin, 4017.76; — Desormeaux (in French, with plates), 4016.4; — Dessables (in French), 4019.41; — "Handbook of turning," 4016.5; — Hasluck:

Shelf. No.

Turning, *continued.*

"Lathe-work" (1881), 4017.82; — Holtzapffel (4 v.), 4016.1; — Hulot (in French), 4100.27; — Ibbetson, 4016.2; — Salivet (in French, with Atlas, 2 v.), *4013.6; — Savoy: "Geometrical turning," 4015.54; — Taylor, 4035.3; — Valicourt (in French, 3 v.), 8029.59.

Turning-points in life. Arnold, F. 1137.3
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Tyndall, J. The forms of water in clouds and rivers, ice and glaciers 147.19
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In the Bates Hall are the following by Tyndall: — "Address before the British association," 3825.57; 3828.56; — "Contributions to molecular physics in the domain of radiant heat," 3962.50; 3965.51; — "Electrical phenomena and theories," 5969.7; — "Essays on the use and limit of the imagination in science," 7603.4; — "Faraday as a discoverer," 4549.11; — "Heat as a mode of motion" (ed. of 1863), 3960.12; (ed. of 1875), 3968.61; — "Hours of exercise in the Alps," 4868.16; — "Notes of lectures on light," 7924.14; — "Researches on diamagnetism and magne-crystallic action," 5963.3; — "Six lectures on light," 3929.61; 3928.69; 3927.67; — "Sound" (ed. of 1867), 3943.28; (ed. of 1875), 3968.65; — "Transmission of sound by the atmosphere," 3918.54.2.

Types and emblems: sermons. Spurgeon, C. H. 1117.9
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Underground. [Geology.] Taylor, J. E... 1164.8
Underground; or, life below the surface. Knox, T. W. 1191.1
United States. Cavalry tactics U. S. army, assimilated to the tactics of infantry and artillery. 1874 .....1199.39
Abbott, B. V. Judge and jury. A popular explanation of leading topics in the law of the land. 1880 .....1135.14
Brackett, A. C., *editor.* The education of American girls 1155.13
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Long, J. W. American wild fowl shooting. 1175.13
Nordhoff, C. Politics for young Americans. 136.2
Woolsey, T. D., and others. The first century of the republic: a review of American progress. 1876 ..... 241.4

Manufactures and useful arts.

In the Bates Hall: — Adams, and Asher and Adams: "New Columbian railroad atlas and pictorial album of American industry," *C.F.4.11; **C.D.4.1; — Bally: "L'industrie dans les États-Unis," 4026.23; — Bishop: "History of American manufactures from 1608 to 1860" (3 v.), 5652.1; — Bolles: "Industrial history of the United States," 4013.61; — Greeley, and others: "The great industries of the United States," A.200.13; — Grothe: "Die Industrie Amerika's," 4023.51; — Seelhorst: "Die Philadelphia-Ausstellung und was sie lehrt," 4026.51; — Wyckoff: "Textile manufacturers' directory" (1881), *3653.33; and many other recent books; — see also the names of manufactured articles and the reports of the Bureau of statistics, *7653.1; and the Census reports. In the Bates Hall catalogue are books describing the exhibit of the United States at the Paris exposition, 1867 and 1878; the Philadelphia exhibition, 1876, and the Vienna exhibition of 1873.

Unknown river, The. An etcher's voyage of discovery. Hamerton, P. G. 1207.13
Unwin, W. C. The elements of machine design 1196.9

Shelf. No.

Up de Graff, T. S. Bodines; or, camping on the Lycoming. A complete guide to "camping out" 1195.23
Upholstery, Hints on household taste in. Eastlake, *Sir* C. L. 208.12
Upton, E. Infantry tactics, double and single rank. 1874 .....1199.38
Urbino, Lavinia B., **Day,** H., and others. Art recreations. With receipts for preparing materials 1196.5
Ure, A. A dictionary of arts, manufactures and mines. [With Supplement.] 1866, 68. 3 v. R.R.,D.17

A copy of the edition of 1875-78, 4 v., is in the Bates Hall, *8037.8. The earlier editions are also in the Library.

Urquhart, J. W. Electric light: its production and use 1141.7
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Useful arts. *See* Manufactures.
Useful companion, The, and artificer's assistant. Containing nearly six thousand receipts 1184.1
Useful knowledge, The child's question book of. Bond, T. W. 1142.10
Useful rules and tables relating to mensuration, engineering, structures, and machines. Rankine, W. J. M. 190.33

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See also Botany.

Vegetable life, Curiosities of. Timbs, J. ...1164.22
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Watts, E. Vegetables, and how to grow them 150.41

In the Bates Hall: — Heuzé: "Les plantes alimentaires" (illus., 3 v.), 3842.50; — Phillips: "History," 3852.8; — and other works; — see also Botany.

Vegetation, The wonders of. Marion, F. ...1179.22
Ventilation. Eassie, W. Healthy houses. A handbook of ventilation [etc.] 207.33

See also in the Bates Hall: — American public health association Papers, 3762.51; — Arnott, 8092.25; — Bell (address, 1848, before the Mass. medical society), 8094.11; — Berger (in German), *5914.50.5; — Bosc (in French), 4093.55; — Buckton: "Health in the house," 3768.75; — Butler, 8099.5; — Clark, *3765.54; — Drysdale and Hayward (ed. of 1872), 4099.56; (ed. of 1876), 4099.60; — Edwards, 8092.1; — Gouge, 8094.4; — Great Britain, *Com'r of patents,* "Abridgments of specifications," Patent Room; — Hood (5th ed., 1879), 3963.53; — Inman (House of commons), 4105.2; — Joly (in French), 8095.2; — Labarthe (in French), 8092.24; — Lang (in German), 4096.53; — Leeds, 4103.20; 4105.6; — Lincoln: in Buck's "Hygiene and public health," *3764.69.1; — Morin (in French), 4105.8; 4105.9; — Parkes: "Practical hygiene," 3766.77; — Philbrick: "American sanitary engineering," 4016.82; — Putnam: "The open fire-place in all ages," 4099.67; — Richardson, 4105.4; — Ritchie, 8092.3; — Schumann, 3969.75; — Teale, 3766.75; — Tomlinson (3d ed., 1864), 4099.6; and other works; — see also Architecture, Fuel, Health, Heat.

Ventilation of mines. — Devillez, 3863.20; — Great Britain, *Parliament,* Sessional papers; — Moore, 3873.15; — Thomas, 3977.63; — see also Mines.

Ventriloquism made easy. Hardy, F. 180.107
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See also Astronomy, and the Bates Hall Card catalogue.

Verney, Frances P., *lady.* Sketches from nature with pen and pencil 1155.17

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Veterinary art. Mayhew, E. The illustrated horse doctor. 9th ed. 1876 ..... 173.6

In the Bates Hall: — Armitage, 4006.58; — Beasley (3d ed. 1872), 3789.54; — Blaine, 4002.8; — Chawner, 4008.9; — Clater (cattle), 4002.19; — Dadd (cattle), 6004.12; — Dadd (horses), 4004.13; — Dick, 6004.2; — Dun, 4005.60; — Fleming: "Manual," 4004.7; — Fleming: "Text-book," 4004.64; — Law, 4006.32; — Magne: "Progrès de la médecine vétérinaire," *6640.26; — Mayhew: "Illustrated horse management," 4004.15; — Nysten: "Dictionnaire," *3733.50; — Peuch and Toussaint: "Précis," 4007.16; — Reynal: "Traité de la police sanitaire," 4009.69; — Sherer, *4003.52; — Schwab: "Lehrbuch," 4004.10; — Tellor, 3995.61; — Tuson, 6004.7; — Williams, 4005.50; 4005.61; — "The Veterinarian," *5798.1; — and other works. See also Domestic animals, Horse. Also, the reports of the veterinary department of the Privy council in the Parliamentary sessional papers of Great Britain, and the reports of the United States Department of agriculture, *5790a.30.

Viardot, L. Wonders of sculpture 1198.19

In the Bates Hall, by the same author: "Études sur l'histoire des institutions, de la littérature, du théâtre et des beaux-arts en Espagne, **D.120a.9; **D.182.16; — "Les merveilles de la peinture," 8069.7; — Les merveilles de la sculpture," 8068.4; — "Sur les principaux peintres de l'Espagne," 4081.9; — "Wonders of Italian art," *8065.12; etc.

Victories of the saints. Neale, J. M. 1119.22

Vienna exhibition of 1873.

In the Bates Hall there are books describing the progress of art and science as shown at the universal exhibitions at London, Paris, Philadelphia, and Vienna.

Views of our heavenly home. Davis, A. J.1117.26

Viking tales of the North. Anderson, R. B., and others, *translators* 1082.8

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In the Bates Hall: — Campagnoli: "Mechanism," 8051.67; — Dubourg: "The violin" (4th ed., 1852), 4057.26; — Fétis: "Notice of Paganini, and sketch of the history of the violin," 4045.66; — Fétis: "Notice of Stradivari, [with] researches on the origin [etc.] of bow instruments," 4056.33; — Hart: "The violin: its famous makers and their imitators," 4042.59; — Otto: "Structure and preservation," 8045.50; — Pearce: "Violins and violin makers," 8049.51; — Phipson: "Biographical sketches and anecdotes of celebrated violinists," 4057.29; — Regli: "Storia del violino in Piemonte," 4056.27; — Sandys: "History," 4056.26; — Tours, 4042.76; — Wasielewski: "Die Violine und ihre Meister," 8045.6; — see also under Musical instruments in the Bates Hall Card catalogue.

Instruction books and exercises. — Brainard, 8051.61; — Clarke, 8057.2; — Coe, 8056.6; — Eichberg, 8050.56; 8051.44; — Fessenden, 8051.77; — Howe, 8051.72; 8051.87; — May, 8051.73; — Mazas, 8051.70; — Mozart, *4046.2; — Ries, 8041.72; — Saunders, 8051.80; — Spohr, 8051.71; — "The violin made easy," 8051.82; — Woodbury, 8051.86.

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In the Bates Hall, by Viollet-le-Duc: — "Annals of a fortress," 3955.68; 3955.74; — "L'art russe," *4062.26; — Description et histoire de château de Pierrefonds," 2635.54; — "Dictionnaire raisonné de l'architecture française du XIe au XVIe siècle" (10 v.), *4105.14; — "Dictionnaire raisonné du mobilier français de l'époque carlovingienne à la renaissance" (6 v.), *4095.62; — "Discourses on architecture," 4093.54; — "Entretiens sur l'architecture" (2 v.), *8092.26; — "Essay on the military architecture of the middle ages," 3955.72; — "The habitations of man in all ages," 4106.7; — "Habitations modernes," *,*C.A.1.3; — "Histoire d'une forteresse," 3955.69; — "Histoire d'un hôtel de ville et d'une cathédrale," 4614.53; — "Histoire d'un maison," 4095.59; — "How to build a house," 4106.6; — "Intervention de l'état, dans l'enseignement des beaux-arts," 3594.61; — "Le massif du Mont Blanc," 3863.50; — "Mémoire sur la défense de Paris," *4624.14, Atlas, *4620.3; — Mont Blanc (translation), 3866.59; — "On restoration," 4098.7; — and, with D. Charnay: "Cités et ruines américaines," *2367.13, Atlas, *23.H.1.

Visions: a study of false sight. Clarke, E. H. 1117.27

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Visits to Aunt Clement; or, conversations on the connection between the Old and New Testaments 1418.7

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Vivisection.

In the Bates Hall: — Bernard: "Leçons de physiologie opératoire," 3764.65; — Dalton: "Vivisection; what it is, and what it has accomplished," *5745.62; — Dalton: "Experimentation on animals," 5799a.62; — Fleming: "Vivisection: prize essay," No. 2 in 5745.62; — Hermann: "The vivisection question popularly discussed," 5745.72; — "The Royal society for the prevention of cruelty to animals and the Royal commission," 3575.66; — "Vivisection, scientifically and ethically considered, in prize essays, by J. Macaulay, B. Grant, and A. Wall," 3746.71; — Wilkinson: "On human science" [etc.] (argument against vivisection from the Swedenborgian point of view), 3484.57. The London Spectator has many articles opposing vivisection.

Vogel, H. The chemistry of light and photography 1149.17

Voice. Daniell, W. H. The voice and how to use it 1206.7

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In the Bates Hall: — Atwell: "Principles of elocution and vocal culture," 5599a.69; — Battaille: "Nouvelles recherches," 5763.11; — Browne: "Medical hints on the production and management of the singing voice," 4057.32; 4057.37; — Colombat de l'Isère (ed. of 1857), 3769.33; 7767.14; (in French), 3809.28; — Fournié (in French), 5765.4; — Fowler, 5599a.62; — Guilmette, 3766.40; 3764.55; — Holmes, 3768.18;; 3768.26; — Kidd, 7067.5; — Kingsbury, 3598.66; — Lacombe (in French), 4042.64; — Laugel (in French), 4049.59; — Lee, 7767.11; — Lunn, 4048.70; — Mandl (in French), 3769.83; — Meyer (in German), *5914.50.6; — Patton, 4048.91; — Plumptre: "King's college lectures" (1876), 3602.60; (1881), 3594.64; — Rossbach (in German), 5763.5; — Rush (ed. of 1867), 5591.25; — Sandlands, 3597.75; — Seiler, 3606.56; (in German), 4057.27; — Trousseau, 3755.22; — Trousseau and Bellioc, 5795.53; — see also Singing.

Volcanoes. Half hours underground.....1147.13

In the Bates Hall: — Brigham (Hawaiian islands), 5040.1; — Dolomieu: "Histoire," 3869.4; — Humboldt: "Umrisse von Vulkanen aus den Cordilleren," 4270.12; — Hunt: "Chemical and geological essays," 3868.55; — Moehl: "Erdbeben und Vulkane," *5914.50.9; — Ordinaire: "Histoire naturelle des volcans," 3867.57; — Palmieri: "Vesuvius in 1872," 3862.53; — Pfaff: "Die vulkanischen Erscheinungen," 3917.50.7; — Pieschel: "Die Vulkane der Republik Mexiko," *23.M.21; — Scrope: "Extinct volcanoes of central France," 3861.20; — Scrope: "Phenomena," 3867.7; — Scrope: "Volcanoes," 3867.51; — Whitney: "Earthquakes, volcanoes, and mountain-building," 3868.50; — Zürcher and Margollé: "Volcanoes and earthquakes," 5866.2; (in French), 5868.30. See also Etna, Mauna Loa, Pompeii, Santorin, Vesuvius.

Waegner, W. Asgard and the gods. Tales and traditions of our Northern ancestors.. 2081.2

Wages.

In the Bates Hall: — Brassey: "Foreign work and English wages considered," 3573.61; — Brassey: "Work and wages practically illustrated," 3647.50; — Davis: "Labor and wages," No. 21 in *7573.55; — Denny: "The worth of wages," 5564.52; — Engel: "Der Preis der Arbeit," *5914.50.1; — France. *Assemblée nationale.* "Rapport sur les conditions du travail en France," 3561.52; — Le Hardy de Beaulieu: "Du salaire," 3648.13; — Leroy-Beaulieu: "Essai sur la répartition des richesses," 3560a.58; — McCulloch: "Circumstances which determine the rate of wages," 3648.26; — Massachusetts. *Bureau of statistics of labor.* Reports, *6443.3; — Nicholson: "The effects of machinery on wages," 3566.72; — Torrens: "On wages and combination," 7562.56; — Walker: "The wages question," 3563.51; 3563.58; — Ward: "Workmen and wages at home and abroad," 5577.10; — Young: "Labor in Europe and America: the rates of wages" [etc.], 3573.55; — see also Labor and laboring classes, Political economy.

Walker, Alfred. Hints to women on the care of property 1134.5

With an appendix "On the management of money," by Lord Lytton.

Walker, Arthur C. The correct card; or, how to play at whist 1189.24

Walker, F. A. Growth and distribution of population. (*In* The first century of the republic) 241.4

In the Bates Hall, by the same author: — "Compendium of the ninth census, *C.245.7; — "Facts about America. The census of [1870], *4328.56; — "The Indian question," 2368.55; — "Money," 3653.55; — "Money in its relations to trade and industry," 3649.76; — "Statistical atlas of the United States based on the census, 1870," *23.G.2; — "The wages question," 3563.51; 3563.58.

Shelf. No.

Walker, J. Reason, faith, and duty. Sermons preached chiefly in the chapel [of Harvard college] 1103.10

Walker, William. Handbook of drawing ... 1204.9

Walker, William B. Cyclical deluges: an explication of the chief geological phenomena of the globe 147.31

Walking. Harding, W. E. The athlete's guide. 137.11

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Wanklyn, J. A., and Chapman, E. T. Water-analysis: a practical treatise on the examination of potable water 1141.5

War-ships and navies, The, of the world. 1880. King, J. W. 192.2

Ward, *Mrs.* H. O., *pseud.* *See* Moore, Clara J.

Ward, J. C. Elementary geology 1168.5

Ward, M. A. Outlines of zoology and comparative anatomy 1167.18

Ware, J. R. Handbook of bésique 180.114
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Waring, G. E., *jr.* Village improvements and farm villages 1149.25

Warming.

In the Bates Hall: — Hood: "Practical treatise on warming buildings" [etc.], 3963.53; — Joly: "Du chauffage," 8095.2; — Tomlinson, 4099.6, etc.; — see also Heat, Ventilation.

Warner, Anna. Gardening by myself 150.33
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Warren, Elizabeth. The art of imitating oil paintings without a knowledge of drawing. 1182.6
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Warren, S. E. Manual of drafting instruments and operations 1203.12

Warren, T. R. Shooting, boating and fishing, for young sportsmen 178.6

Warrington, *pseud.* *See* Robinson, W. S.

Watches. Beckett, *Sir* E. A rudimentary treatise on clocks and watches and bells. 6th ed. 1874 ..... 829.4
Britten, F. J. Watches and clocks 1192.1.11
See also Clocks.

Water. Abbott, J. Science for the young. Water and land 184.42.3
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Glynn, J. Rudimentary treatise on the power of water, as applied to drive flour mills [etc.] 1149.11
Hartley, W. N. Water, air and disinfectants 1158.34
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Wanklyn, J. A., and Chapman, E. T. Water-analysis 1141.5

In the Bates Hall: — Ford: "Soil and water," *3764.69.1; — Fox: "Sanitary examinations of water," 3767.84; — Gairdner: "Public health in relation to air and water," 5769.4; — Harrison: "Contamination by lead," 3809.7; — Kellogg: "The use of water in health and disease," 3767.89; — Kirkwood (lead pipe and water), 7763.3 — Macdonald (microscopical examination), 3927.55; — Nadault de Buffon: "Régime légal des eaux de sources naturelles et artificielles," 3664.9; — Pfaff: "Das Wasser," 3917.50.4; — Poleck: "Kenntniss der chemischen Veränderungen fliessender Gewässer," 5971.14; — Tissandier: "L'eau," 3868.33; — Trommsdorff: "Statistik," 5963.5; — see also Hydraulics, Hydrostatics, Rivers.

Water-color painting.

In the Bates Hall: — Barnard, 4072.60; — Cassagne: "Traité d'aquarelle," *4073.52; — Foster, 4078.53; — Goupil: "Traité méthodique et général," 4074.65; — Hildebrandt: "Aquarelle," Trustees' Room; — Leitch, 8068.41; — Manuels-Roret: "Cours théorique et pratique," 8069a.27; — Miles, 8069.8; — Murray: "The modern system of painting in water-colours from the living model," 8069a.8; — Penley: "Sketching from nature in water colours," *8061.25; — Penley: "System" (28th ed., 1870), 8068.16; — Penley: "English school," *4070.63; — Rowbotham: "Landscape painting in water colours," 8068.19; — Ryan, *46.I.1; 4078.69; — Whiteford (figure painting), 8068.31; — see also Painting.

Water supply.

In the Bates Hall: — Ansted, 3944.55; — Beloe (catch-water reservoirs), 3946.52; — Browne, 3948.70; — Chandler. Report in American public health association papers, 3762.51.1; — Dupuit: "Traité" (2 v.), *3940.11; — Fanning, 3944.50; — Humber, **3940.9; — Joly (in French), 8095.2; — Macassey, 3946.66; Ripley, *3764.69.1; — Salbach, Schmick, Thiem: "Die Wasserversorgung der Stadt München," *3940.22; *3940.23; *3940.24; — Slagg, 3769.85; — Spon, 3948.57; — see also Aqueducts, Baths, Irrigation, and the names of places.

Water weeds, Down among the. Brent, *Mrs.* C. 1164.26

Watson, F. The defenders of the faith; or, the Christian apologists of the second and third centuries 2101.4

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Watts, Elizabeth. Flowers and the flower garden 150.44
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Vegetables, and how to grow them 150.41

Watts, I. Cotton. (*In* Bevan's British manufacturing industries) 1192.1.6

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Way-side service; or, the day of small things. Shipton, A. 1119.23

Ways and tricks of animals. Hooper, M. ... 1171.7

Wealth, The, of nations. Smith, A. 2 v. ... 1130.1

In the Bates Hall: — Constable: "The anatomy of wealth," 3647.75; — Jones (distribution), 3653.13; 3653.18; — Leroy-Beaulieu: "Répartition des richesses," 3560a.58; — Maitland, 3563.11; — Menier: "Atlas de la production de la richesse," *3650.7; — Say: "Études," 3646.65; — Sturtevant, 3647.54; — Amasa Walker, 3640.8, etc.; — see also Finance, Money, Political economy.

Weaver, G. S. Hopes and helps for the young. 128.10
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Weaving.

In the Bates Hall: — Barlow, 4012.65; — Falcot: "Traité" (3 v.), 4012.13; — Gand: "Cours de tissage" (2 v.), 4012.60; — Great Britain. *Com'r of patents.* "Abridgments of specifications," 1620–1866, Patent Room; etc.; — see also Carpets, Cotton.

Webb, H., and others. Dogs: their points, whims, instincts, and peculiarities 1178.18

Webb, M. The art of swimming 1189.20

Wedgwood, G. R. The history of the tea-cup; with a descriptive account of the potter's art 1206.4

Books in the Bates Hall upon Wedgwood and his ware: — Jonveaux: "Histoire," 4029.56; — and the following by Eliza Meteyard: "A group of Englishmen," 2545.51; — "Life" (2 v.), 4025.24; — "Memorials of Wedgwood," **4020a.54; — "Wedgwood and his works," **4020a.53; — "The Wedgwood handbook," 4025.22.

Weights and measures.

Titles selected from the Bates Hall: — Alexander: "Universal dictionary," 5936.31; — Barny de Romanet: "Traité," 5682.4; — Chisholm, 3938.63; — Clarke, 3938.55; — Craig, 7939a.15; — Deschamps: "Nouveau manuel," 3685.20; — Dowling, 5688.16; — Everett, 3934.12; — France. *Ministry of agriculture.* "Atlas," *3681.1; — Great Britain. *Com'r of patents.* "Abridgments of specifications," 1617–1866, Patent Room; — Jackson, 3934.19; — Karsten (in German), *5914.50.6; — Kletke (in German), 3642.64; — Kohlmann (in German), 5939a.7; — Lemale, 3934.11; — "Monnaies, poids, mesures et usages commerciaux de tous les états du monde," 3642.63; — Noback: Maass- und Gewichtsbuch (2te Aufl., 1877), *5688.7; — Norton, *5681.7; — Paris. *Exposition universelle.* "Congrès international pour l'unification des poids, mesures et monnaies," *6025.74; — Petrie: "Inductive metrology; or, the recovery of ancient measures from the monuments," *5014.63; — Ruggles, No. 2 in *3653.63; — United States. *Treasury dep't.* Report, 1857, 5936.29; — see also Metric system, and the names of countries, division 119 ("Weights and measures").

Shelf. No.

Weir, H. Pictures of birds and other family pets 171.11
Weiss, J. The immortal life 1114.19
Welcome guest, The. [Instrumental music]. 201.30
Wells, D. A. Progress in manufacture. (*In* The first century of the republic) 241.4
Robinson Crusoe's money 1790.24

In the Bates Hall:—"Familiar science," 5914.6;—"First principles of geology," 7868.8;—"Natural philosophy" (ed. of 1880), 3968.82;—"Reports of a commission for revision of the revenue system of the United States, 1865–66," 7645.2;—"The science of common things," 5967.11;—"The silver question," No. 2 in *3649.78;—"Why we trade and how we trade," No. 1 in *3649.78; etc.

Welsh, L. G. A practical guide to business.. 138.19
Wesley, J. Primitive physic; or, method of curing diseases 1159.40
West, The. Brisbin, J. S. The beef bonanza; or, how to get rich on the plains..1164.10

For books on the West (United States) consult the Lower Hall Catalogue of history, biography, and travel, and the Card catalogues in the Bates Hall and the Lower Hall.

Westhall, C. The modern method of training for running, walking, rowing, and boxing.....1189.18
Weston, Agnes E. Our blue jackets. A narrative of [her] life and work among our sailors 1129.24
Westropp, H. M. Handbook of pottery and porcelain 1204.17
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In the Bates Hall:—Baldwin, 6009a.9;—Jones: "Laws and principles stated. By Cavendish," 4008.63;—Pettes: "American or standard whist," 6007.53;—A. Trump, junior: "Laws and regulations of short whist," 6008.84.

Whitney, Adeline D. T. Just how: a key to the cook-books 1181.4
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Iron and steel 1192.1.1
Oil and candles 1192.1.4

The above are in Bevan's British manufacturing industries.

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A treatise on steam boilers: their strength, construction, and economical working. 5th ed..... 1193.7
Wind.

In the Bates Hall:—Coffin: "Winds of the northern hemisphere"; "Winds of the globe" (*In* Smithsonian institution. Contributions to knowledge), *3340.1.6; *3340.50.20;—Hopkins: "Atmospheric changes which produce wind," 3964.6;—Jinman: "Winds and their courses," 3967.9;—Lommel: "Wind und Wetter," 3917.50.10;—Maury: "Wind and current charts," 3951.8; *4273.9; *F.9.1;—see also Atmosphere, Meteorology, Physics.

Window gardening. Mollison, J. R. The new practical window gardener.....1164.16
Rand, E. S., *jr*. The window gardener.... 150.36
Williams, H. T. Window gardening..... 150.32

See also articles in The popular recreator, 181.3.

In the Bates Hall:—Buckton: "Town and window gardening," 3997.72;—Burbidge: "Domestic floriculture, window-gardening and floral decorations," 3999.55.

Winner, Sep., *pseud?* Strauss dance music for the violin or flute, and piano..... 206.27

In the Bates Hall, by the same author: "Tunes of the world: with easy instructions for the fife," 8048.41;—"New school for the German accordeon," 8046.29.

Winning souls. Halliday, S. B..... 1117.5
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Wood, A., and **Steele**, J. D. Fourteen weeks in botany 1171.14
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Wood, F. Cricket 180.116
Wood, G. B., and **Bache**, F. The dispensatory of the United States. 12th ed. 1867. 161.2

In the Bates Hall, the 14th ed., 1877, *3785.69.

Wood, Henry T. Bookbinding. (*In* Bevan's British manufacturing industries) 1192.1.8
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In the Bates Hall, by J. G. Wood: — "Bees," 5898.34; — "Common British beetles," 5809a.1; — "The common moths of England," 5897.4; — "Common objects of the microscope," 5929a.23; — "Insects abroad," 3892.51; — "Insects at home," 3894.50; 3895.50; — "Nature's teachings," 3825.70; — "Trespassers," 3828.57; — "Uncivilized races," *6241.4.

Wood, Sara. The dwellers in our gardens: their lives and works.....1164.23
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Wood.

In the Bates Hall: — Dupont and Bouquet de la Grye: "Les bois indigènes et étrangers" (illus.), 3849.65; — Gillot: "Carbonisation," 3975.51; — Noerdlinger: "Les bois employés dans l'industrie, descriptions accompagnées de cent sections," **G.307.2; — Paulet: "Traité de la conservation des bois," 3973.54; — United States. *Department of state.* "Report on wood-industries at the Vienna exhibition, 1873," *8025.59.4. Also, "Descriptive catalogue of woods employed for the mechanical and ornamental arts" in Holtzapffel's "Turning," etc., 4016.1.1.

Wood-carving. Bemrose, W., *jr.* Manual of wood carving 1202.5
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See also Fret-cutting.

In the Bates Hall: — Bemrose: "Fret-cutting" [etc.], 8072.2; 8072.11; — Rogers, 4072.33; — Seaton, 4018.68; — Small: "Scottish wood-work of the 16th and 17th centuries," **C.270a.2; — Williams, 4077.2; 8070.58; 8070.62. See also the Cards under Furniture, Household art, Lathe work, Turning; and illustrated papers, such as the "Blaetter für Kunstgewerbe," *8070.54; "Furniture gazette," *6962.1; "Gewerbehalle," *8090a.2; etc.

Shelf. No.

Wood-engraving. Linton, W. J. Some practical hints on wood-engraving.....1207.27

See also Engraving; and, in the Bates Hall Card catalogue, the headings Engraving and Wood-engraving.

Wood screws. Aitken, W. C. 1192.1.3
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In the Bates Hall: — Gladbach: "Les construction en bois de la Suisse," *4090.70; — Toelzer: "Architecture des Alpes," *4100.52; — see also Furniture.

Wood-working factories and machinery, The arrangement, care, and operation of. Richards, J. 1198.23

In the Bates Hall: — Arbey: "Catalogues," *8010.19; — Bale, 4017.73; — Philadelphia. *Centennial exhibition.* "Pamphlets," etc., *4262.71; — Richards, 4014.62; 4017.60.

Wood-working tools; how to use them. A manual 1193.16

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In the Bates Hall: — Biddle, 3956.61; — Cooper ("Vanderdecken"): "Yacht sailor," 3955.66; — Folkard, 3956.50; — "Handbook for the young yachter," 5958.21; — Hart: "The romance of yachting," 5956.23; — "Hunt's Yachting magazine," *7954.50; — Kemp: "Manual of yacht and boat sailing" (ed. of 1878), 3952.59; (ed. of 1880), 3952.61; — Kemp: "Yacht designing," *,*3950.58; — MacMullen: "Orion; or, how I came to sail alone in a 19-ton yacht," 3959.79; — Manning, 3958.63; 3958.64; — Marett, 3953.50; 5956.6; — Walton, 3956.13; — see also Boats, Navigation, the names of yacht clubs, and the names of yachts.

Yale lectures on preaching. Beecher, H. W. Yale lectures on preaching 848.11
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In the Bates Hall, in this series, Lectures, by H. Crosby, 3439.76; by R. W. Dale, 3439.72; 3439.73; by J. Hall, 3439.56.

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Carpentry. *See also* Square.
Child's, The, question book of useful knowledge. Bond, T. W. 1142.10
Church, Ella R. The home garden 1201.9
Clocks, A rudimentary treatise on. Beckett, *Sir* E. 829.4
Cooper, W. Yachts and yachting. By Vanderdecken [*pseud.*] 1185.7
Co-operation as a business. Barnard, C. .. 130.11
Crafts, W. F., *compiler.* Trophies of song. Articles and incidents on the power of sacred music 2106.28
Craik, Dinah, *formerly Miss Muloch.* Sermons out of church 1118.9; 1118.10
Cyclopædias. Burn, R. S. Self-aid cyclopædia for self-taught students 190.17
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Drainage. Buchan, W. P. Plumbing. With chapters on house drainage 190.40
Ecclesiastical history. Hurst, J. F. Outline of church history. 1881 ..... 2101.13
Faith and freedom. Brooke, S. A. 2101.14
Farming for profit. Read, J. E. 161.6

Shelf. No.

Fine arts. Smith, W. Art education, scholastic and industrial 203.3
First century, The, of the republic: a review of American progress. 1876. Woolsey, T. D., and others 241.4
Gardening. Church, E. R. The home garden 1201.9
Gee, G. E. The goldsmith's handbook 190.8
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Goldsmith's, The, handbook. Gee, G. E. .. 190.8
Guests, The, of flowers. Meetkerke, C. E. .. 1166.5
Hodgson, F. T. The carpenters' steel square and its uses 1193.17
Home garden, The. Church, E. R. 1201.9
Horse. Woodruff, H. The trotting horse of America 173.13; 1174.4
Hurst, J. F. Outline of church history. 1881 ..... 2101.13
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Naval art and science. MacDougall, N. The relative merits of simple and compound engines 190.27
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Paris. *Exposition universelle.*

In the Bates Hall there are many books descriptive of the Universal exhibition at Paris.

Philadelphia. *Centennial exhibition.*

In the Bates Hall are many books and illustrations of the Centennial exhibition.

Philips' artists' assistant 1202.1
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Physics. Schoedler, F. The treasury of science, natural and physical 1142.23
Rankine, W. J. M. Useful rules and tables relating to mensuration, engineering, structures, and machines 190.33
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Passages selected from "Modern painters."

Schoedler, F. The treasury of science, natural and physical 1142.23
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Smith, D. M. Outlines of technical knowledge 190.32
Technical knowledge, Outlines of. Smith, D. M. 190.32
Treasury, The, of science, natural and physical. Schoedler, F. 1142.23

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The Patent Specifications and Drawings, and the decisions of the Commissioner of Patents of the United States courts of the United States; the Patent documents of Great Britain (from 1617 to 1879 inclusive, with accompanying indexes, etc., completed); of France (from 1791 to 1863, 1871 to 1877, with indexes); of Germany to date, Canada, and Victoria are kept in the Patent room, adjacent to the Bates Hall, under the charge of a Curator, and can be examined on application at the desk.

The American volumes are received monthly, about six months behind date. The Official Gazette is received weekly. The Journal of the Franklin Institute is in the Patent room, and may be consulted for American patents previous to the official records.

The British volumes are received once a year, and make now about fifty volumes each year. Since 1876 the plates are reproduced in a smaller size than heretofore and bound with the specifications. The Journal of the Commissioners of Patents forms two volumes a year. An abridgment of the patents arranged by subjects, brought down to 1866, makes a series of ninety-four small volumes on ninety-six subjects. This is continued in an Annual "Descriptive index," which ends at the close of 1875. Patents for Fire-arms have a separate series, coming down to 1853. The subject-matter index down to 1852 fills two volumes, and is continued by an annual volume to 1870. From 1871 to 1878, inclusive, these annual continuations of the index are contained in the appendix of the annual volume of Abridgments of specifications. From Jan. 1, 1876, the specifications have been bound one hundred in each volume, preceded by an index. No abridgments of current patents have been published since 1875.

There is also a Reference index, 1617–1852, with Appendix volume, 1853–5; a Chronological index, 1617–1868; and an Alphabetical index of Patentees, 1617–1879. During 1866–7–8, the English Patent Office published an index to foreign scientific periodicals. For recent British patents, "The Engineer" [7961.3], a weekly London journal, which is received regularly in the Periodical reading-room of the Library, should be consulted. It contains a "Patent Journal, condensed from the Journal of the Commissioners of Patents," and gives abstracts of the specifications. The indexes to its half-yearly volumes contain the latest information upon British patents to be obtained in the Library. These volumes cannot be taken from the building. The Canada Patent Office Record (monthly), begun in 1873, is also to be found in the Patent room.

The French patents have the specifications and plates bound together. The volumes for 1863–71 are now in course of publication, so that the missing numbers will be in time supplied. See also the volumes of the Technologiste (1839–80), kept in the room.

No similar series exists of patents in Germany, as the official publication, the Patentblatt, gives no specifications nor drawings, but Dingler's Polytechnisches Journal [5927.1] (from 1820 to date), and the Polytechnisches Centralblatt [7960.5] (from 1835 to 1875), in some measure take their place. Both those periodicals are to be found in the Patent room.

The "Bulletin du Musée de l'Industrie" (1857–80), published at Brussels, and kept in the room, may also be consulted for Belgian patents.

A list of works in the Library on patents can be found in the "Handbook for readers," ed. of 1879.

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Architect, The. A weekly journal of art, civil engineering and building. Vol. 6–24. London, 1871–80. 19 v. *6972.1

Armengaud, J. E., *the elder.* Publication industrielle des machines [etc.]. T. 1–26. Paris, 1848–80. Texte, 26 v. Planches, 5 v. ..... *4023.1; Atlas, *4010.15

Art, L', pour tous, encyclopédie de l'art industriel et décoratif. 1re–19e année. Paris, 1861–79. 19 v. *7360.3

Blaetter für Kunstgewerbe. B. 1–10. Wien, 1872–80. 10 v. *8070.54

Builder, The. Vol. 1–25, 27–38. London, 1843–80. 42 v. *3110.2

Building news and engineering journal. Vol. 15–38. London, 1868–80. 24 v. *7360a.1

Chronique des arts et de la curiosité. Supplément à la Gazette des beaux-arts. Paris, 1875–80. 6 v. *5271.50

Civilingenieur, Der. B. 1–26. Leipzig, 1853–80. 26 v. *8022.4

Dingler's Polytechnisches Journal. 1820–81. 236 v. ..... Patent Room

Engineer, The. Vol. 1–49. London, 1856–80. 49 v. *7961.2

Contains a "Patent Journal, condensed from the Journal of the Commissioners of Patents," and gives abstracts of specifications.

Engineering. London, 1866–80. 29 v. *7971.3

Engineering and mining journal. Vol. 9–11, 13–24, 26–30. New York, 1870–80. 20 v. *7970.4

English mechanic and world of science. Vol. 19–31. London, 1874–80. 12 v. *5940.10

Franklin institute for the promotion of the mechanic arts. Journal. Vol. 1–6. New series, vol. 1–26. 3d series, vol. 1–80. Philadelphia, 1826–80. 112 v. *4017.1

Gazette des beaux-arts. Courrier européen de l'art et de la curiosité. Paris, 1859–80. 46 v. *7310a.50

Gewerbehalle. Stuttgart, 1863–80. 15 v. ... *8090a.2

Great Britain. *Parliament. Sessional papers.*

These documents have been indexed to the year 1863 in the Bates Hall Index and Supplement. For the subsequent papers consult the index to be found in the volumes.

Hardwicke's science-gossip. London, 1866–80. 16 v. *7911.1

Industrial review. London, 1877 ..... *7560.10

Iron. Journal of science, metals and manufactures. Vol. 1–15. London, 1873–80. 15 v. *5910.50

Journal de menuiserie. Paris, 1863–74. 11 v. *7290a.1

Manufacturer and builder. Vol. 1–12. New York, 1869–80. 12 v. *5240a.1

Mining and scientific press. Vol. 27–39. San Francisco, 1873–79. 13 v. in 12 .... *7860.51

Shelf. No.

Mondes, Les. Revue hebdomadaire des sciences et de leurs applications aux arts et à l'industrie. T. 30–52. Paris, 1873–80. 23 v. *5343.1

Nature: a weekly illustrated journal of science. Vol. 1–21. London, 1870–80. 21 v. *7811.2

Nature, La. Revue des sciences et de leurs applications aux arts et à l'industrie. Paris, 1873–80. 8 v. *5811.50

Newton, W. London journal of arts, sciences, and manufactures, and repertory of inventions. London, 1832–66. 67 v. 8015.11; 8025.1

Polytechnisches Centralblatt. Leipzig, 1835–75. 42 v. ..... Patent Room

Popular science monthly. Vol. 1–16. New York, 1872–80. 17 v. *5916.50

Same. Supplement. No. 1–20. New York, 1877, 78. 2 v. *5915.51

Popular science review. Vol. 1–19. London, 1862–80. 19 v. *7815.1

Practical magazine. Vol. 1–7. London, 1873–77. 7 v. *8020.15

Quarterly journal of science. Vol. 1–15. London, 1864–78. 15 v. *7936.2

Revue industrielle. Paris, 1871–80. 10 v. .. *8020a.14

Science record. New York, 1872–76. 5 v. *7917.50

Scientific American. Vol. 3–14. New series, v. 1–43. New York, 1847–80. 55 v. *5960.23

Same. Supplement. Vol. 1–10. New York, 1876–80. 10 v. in 8 ..... *3970.6

Semaine, La, des constructeurs. Journal [etc.]. Paris, 1876–80. 4 v. *6963.1

Smithsonian institution, *Washington, D. C.* Various publications.

See the Card catalogue in the Bates Hall.

Society of arts, *London.* Journal. Vol. 1–28. London, 1853–80. 28 v. *7212.1

Technologist, The: or industrial monthly. Vol. 1–7. New York, 1870–76. 7 v. Illus. *7320.3

Technologiste, Le, ou archives des progrès de l'industrie française et étrangère. T. 1–41. Paris, 1840–79. 41 v. *8022.51

Same. Tables. T. 1–30. (1839–69.) Paris, 1867–70. 2 v. in 1 ..... *8022.50

United States. *Congressional documents.*

See the Bates Hall Index and Supplement, and the Card index to these documents.

Workshop, The. Vol. 1–10. New York, 1859–77. 10 v. *6941.1

Year-book of facts in science and art. London, 1839–79. 41 v. *7919.1

Zeitschrift für bildende Kunst. B. 1–15. Leipzig, 1866–80. Illus. 15 v. *6071.50

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